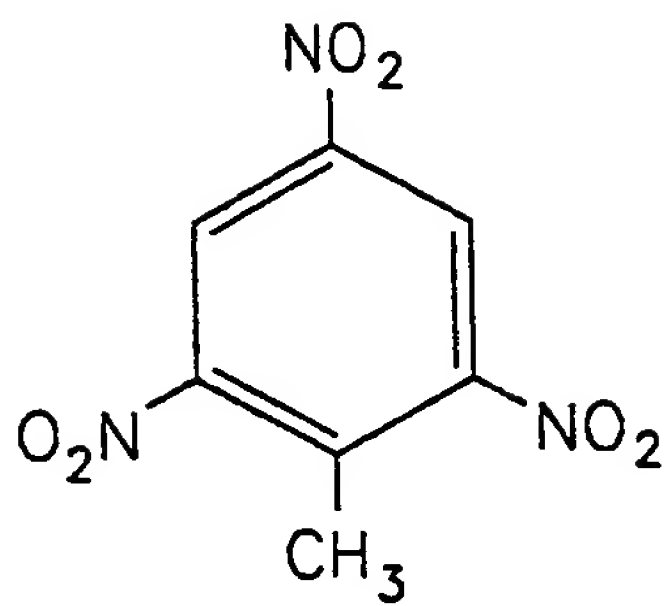
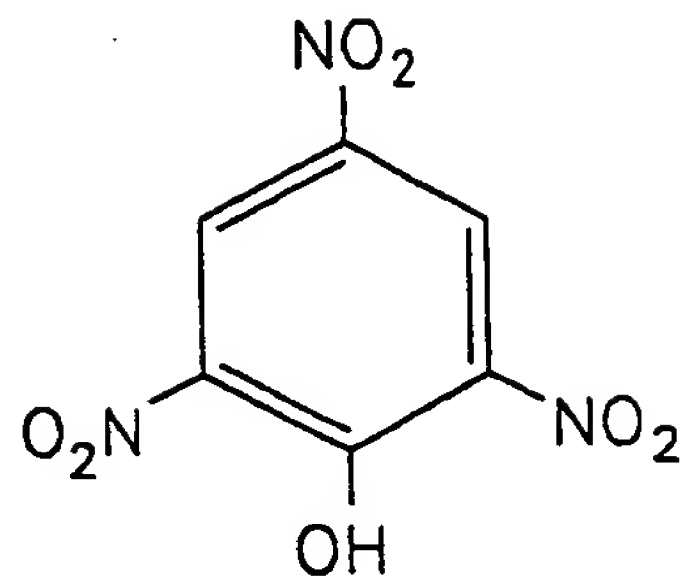


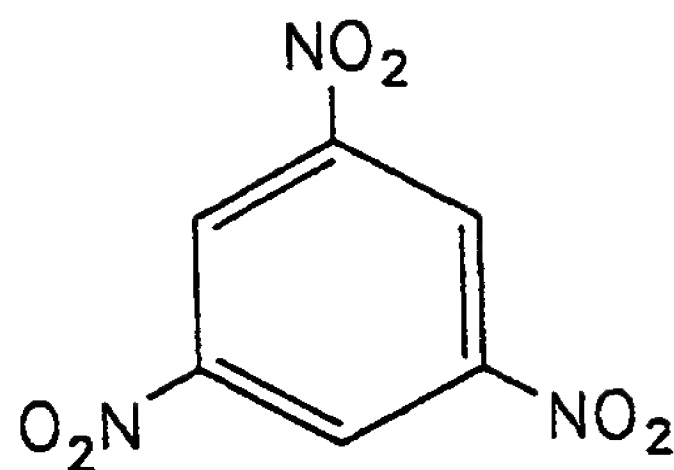
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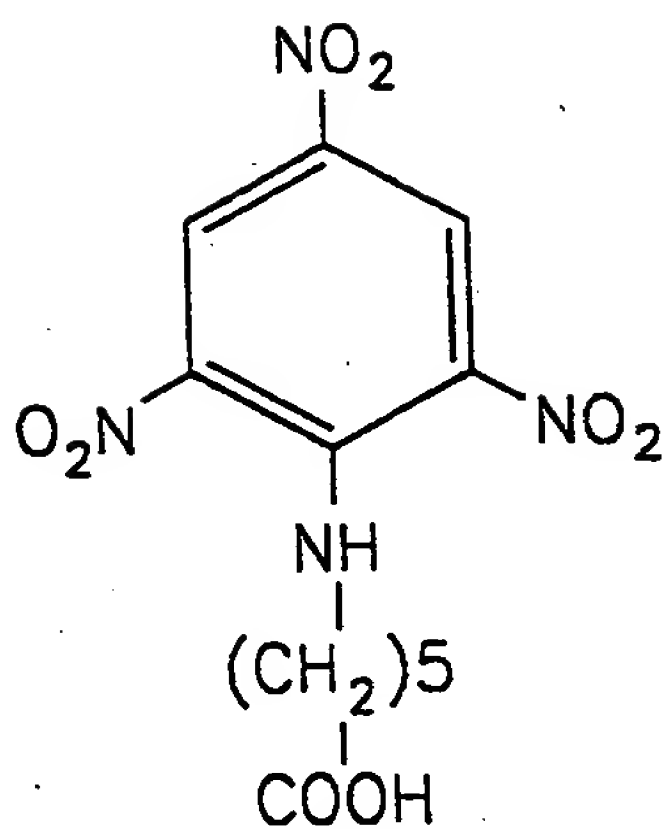
TNT



TNP



TNB



TNP-cap

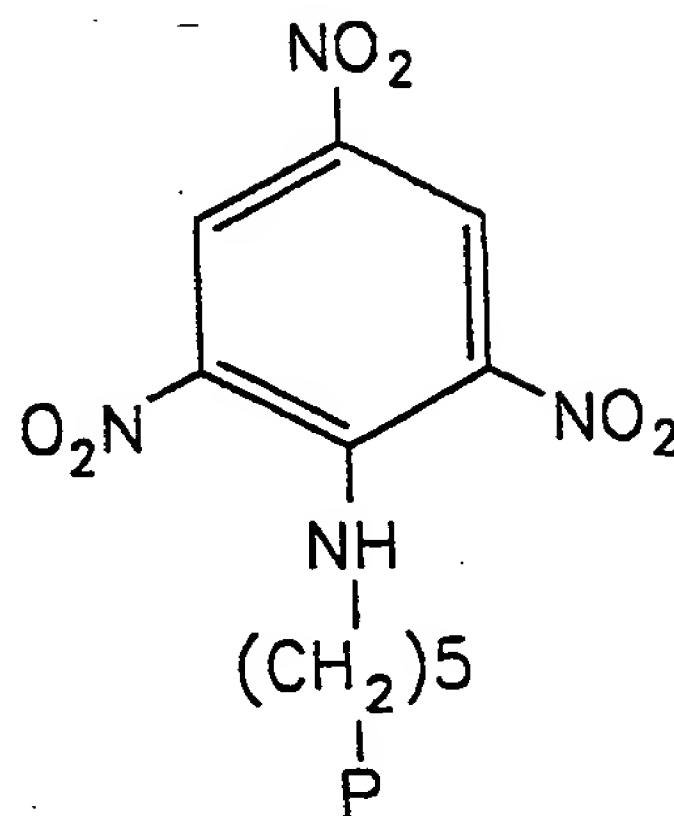
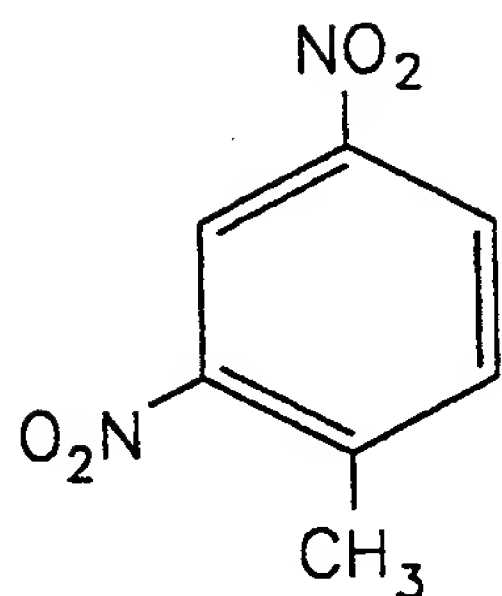
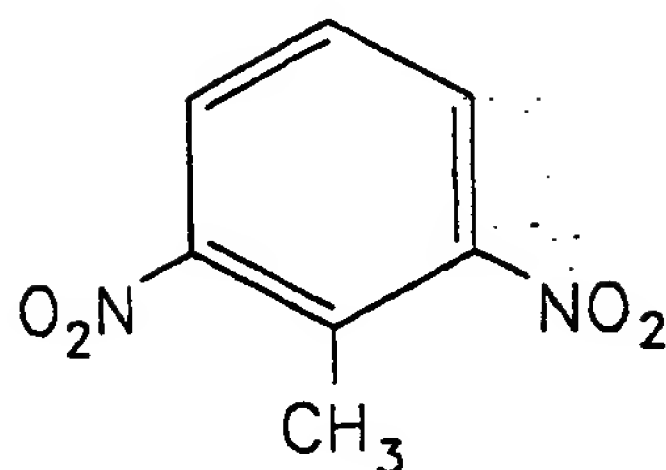


FIG.1A

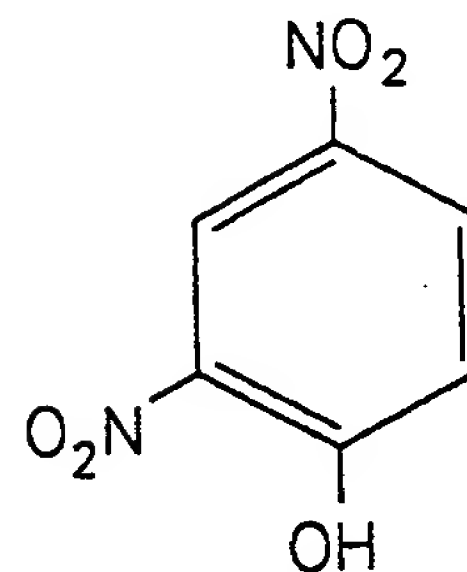
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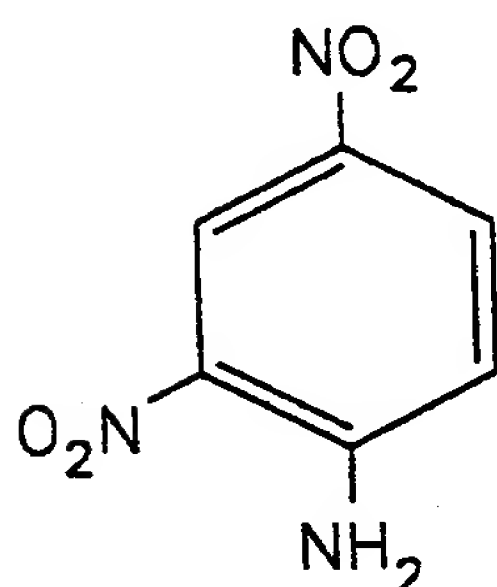
2,4-DNT



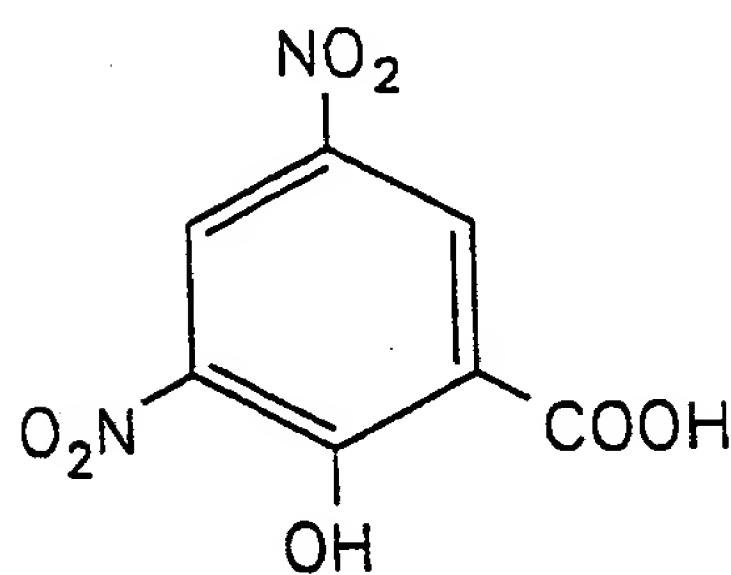
2,6-DNT



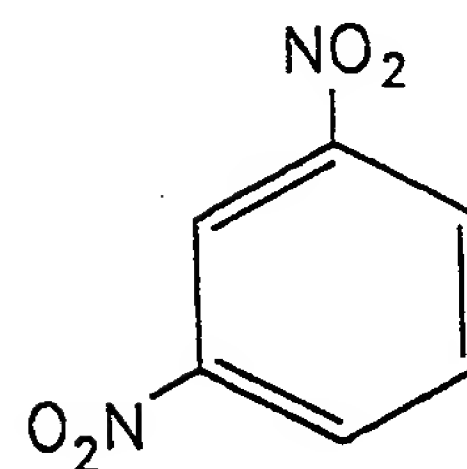
2,4-DNP



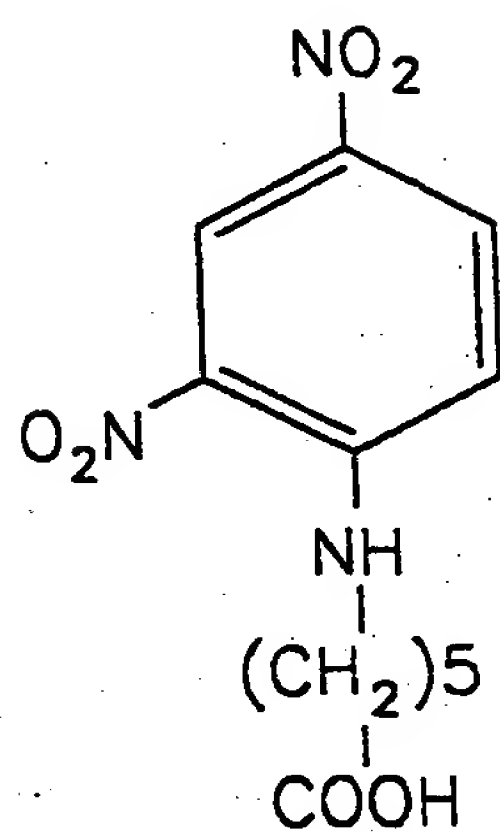
2,4-DNA



DNS



m-DNB



2,4-DNP-cap

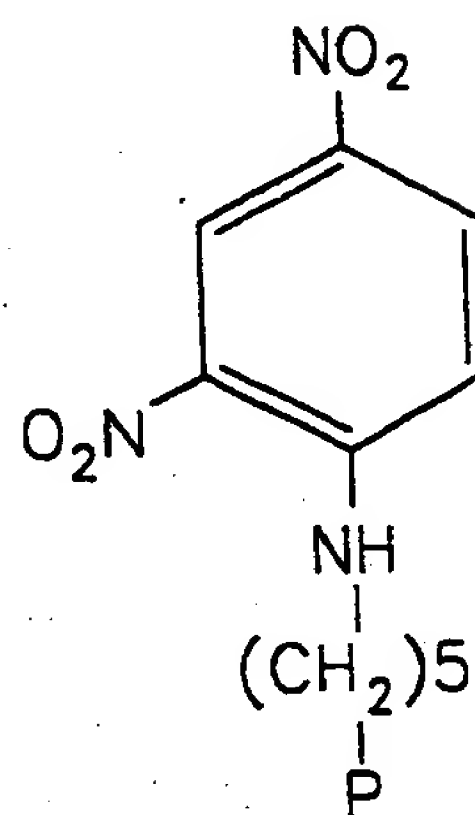


FIG.1B

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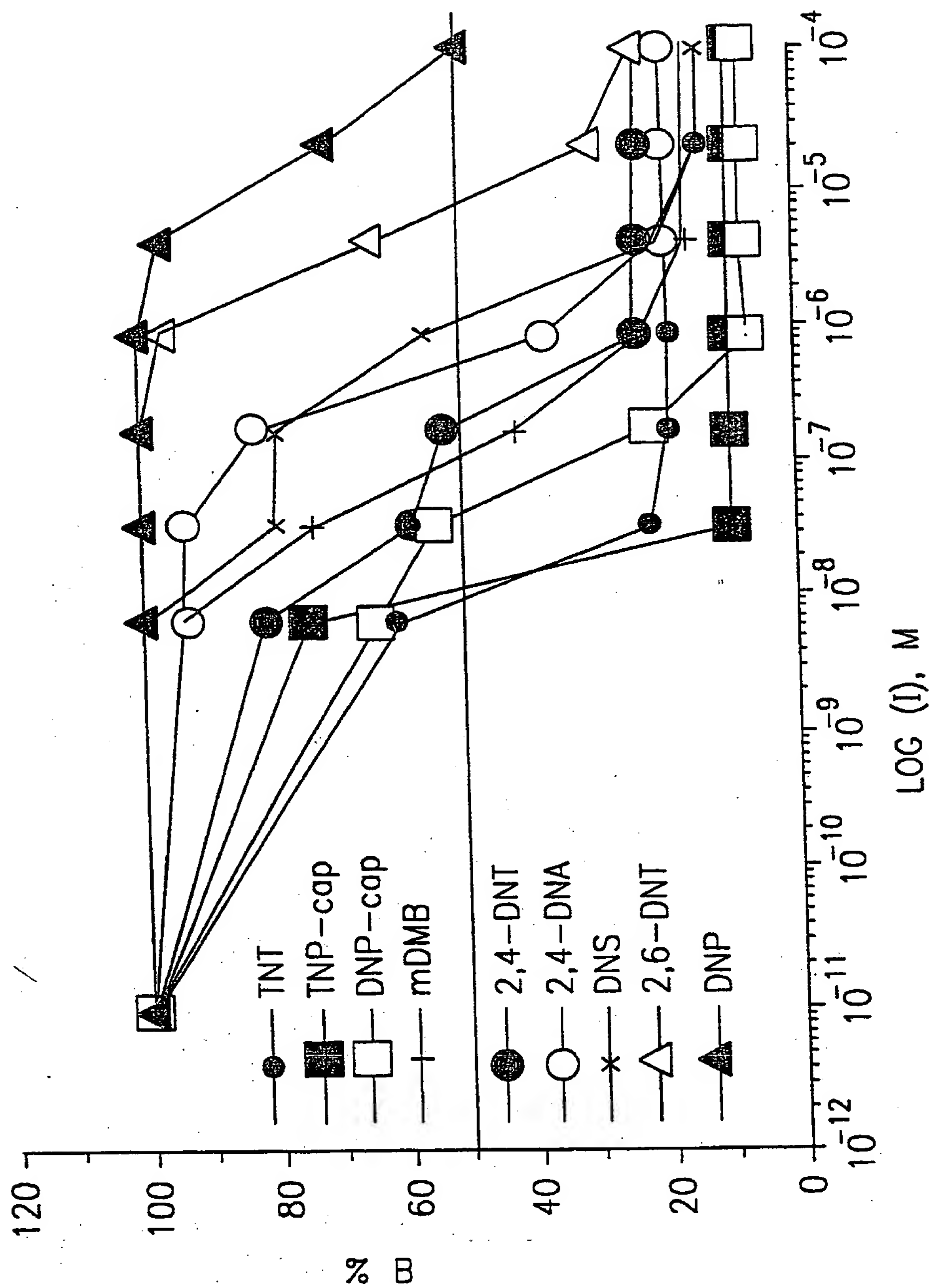


FIG.2A

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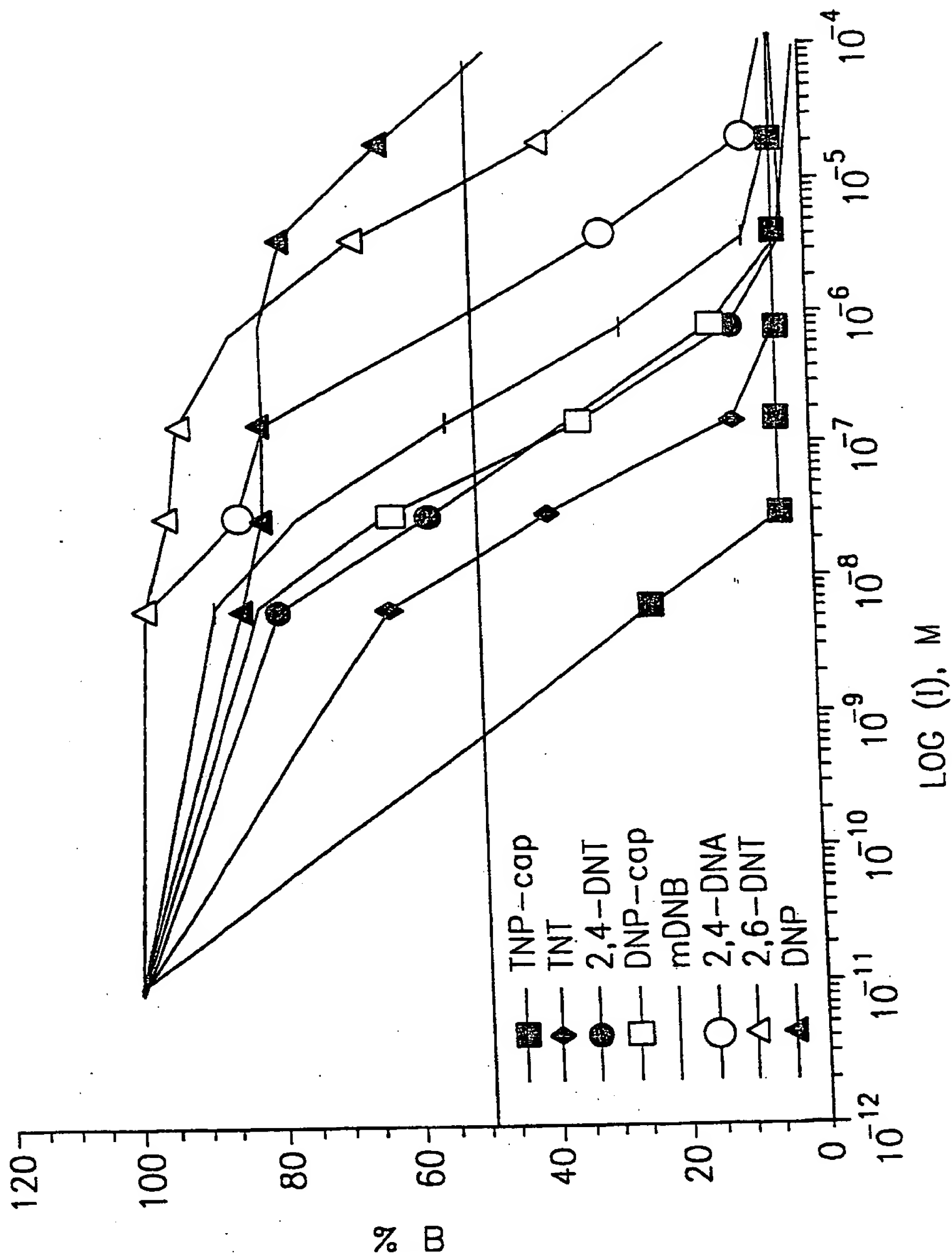


FIG. 2B

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1	ATG	AGA	GTG	CTG	ATT	CTT	TTC	TGG	CTG	TTC	ACA	GCC	TTT	CCT	GGT	ATC	CTG	TCT	GAT	GTG	60
	M	R	V	L	I	L	F	W	L	F	T	A	F	P	G	I	L	S	D	V	
61	CAG	CTT	CAG	GAG	TCG	GGA	CCT	GGC	CTG	CTG	AAG	CCT	TCC	CAG	TCT	CIG	TCC	CTC	ACC	TGC	120
	Q	L	Q	E	S	G	P	G	L	V	K	P	S	Q	S	L	S	L	T	C	
121	TCT	GTC	ACT	GGT	TAC	TCA	ATC	ACC	AGT	GGT	TTT	GCC	TGG	AAC	TGG	ATC	CGG	CAG	TTT	CCA	180
	S	V	T	G	Y	S	I	T	S	G	Y	A	W	N	W	I	R	Q	F	P	
181	GGA	AAC	AAA	CTG	GAG	TGG	ATG	GGC	TAC	ATA	AGC	TAC	AGT	GGT	TTC	ACT	AGC	TAC	AAC	CCA	240
	G	N	K	L	E	W	M	G	Y	I	S	Y	S	G	F	T	S	Y	N	P	
241	TCT	CTC	AGA	AGT	CGA	ATC	TCT	TTC	ACT	CGA	GAC	ACA	TCC	AAG	AAC	CAG	TTC	CTC	CAG	300	
	S	L	R	S	R	I	S	F	T	R	D	T	S	K	N	Q	F	F	L	Q	
301	TTG	AAT	TCT	GTG	ACT	TCT	GAG	GAC	ACA	GCC	ACA	TAT	TAC	TGT	GCA	AGA	TGG	GAC	TAC	GGT	360
	L	N	S	V	T	S	E	D	T	A	T	Y	X	C	A	R	W	D	Y	G	
361	ACT	ACC	TAC	GGG	TAC	TTC	GAT	GTG	TGG	GGC	CAA	GGG	ACT	ACG	GTC	ACC					408
	T	T	Y	G	Y	F	D	V	W	G	Q	G	T	G	V	T					

N3'VH (J1)

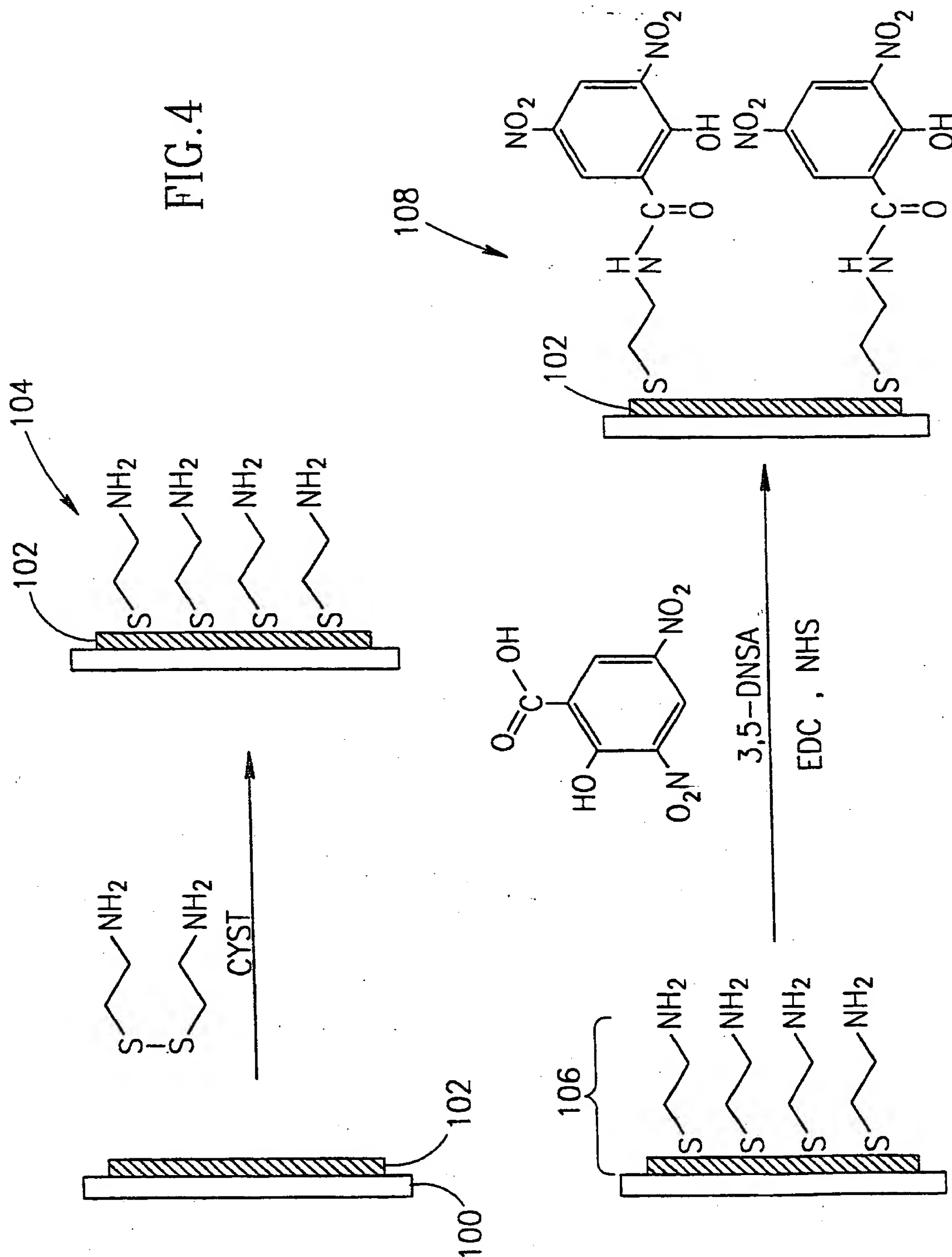
FIG.3A

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1	TCT	AGA	GGA	GAT	ATC	GTT	ATG	ACC	CAG	TCT	CCA	TCC	TCC	CTG	AGT	GTG	TCA	GCA	GGA	GAG	60
	S	R	G	D	I	V	M	T	Q	S	P	S	S	L	S	V	S	A	G	E	
61	AAG	GTC	ACT	ATG	AGC	TGC	AAG	TCC	AGT	CAG	AGT	CTG	TTA	AAC	AGT	AGA	AAT	CAA	AAG	AAC	120
	K	V	T	M	S	C	K	S	S	Q	S	L	L	N	S	R	N	Q	K	N	
121	TAC	TTC	GCC	TGG	TAC	CAG	CAG	AAA	CCA	GGA	CAG	CCT	CCT	AAA	CIT	TTC	ATC	TAC	GGG	GTA	180
	Y	L	A	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	G	V	
181	TTT	ATT	AGG	GAT	TCT	GGG	GTC	CCT	GAT	CGC	TTC	ACA	GGC	AGT	GGA	TCT	GGA	ACC	GAT	TTC	240
	F	I	R	D	S	G	V	P	D	R	F	T	G	S	G	S	G	T	D	F	
241	ACT	CTT	ACC	ATC	AGC	AGT	GTC	CAG	GCT	GAA	GAC	CTG	GCA	GTT	TAT	TAC	TGT	CAG	AAT	GAT	300
	T	L	T	I	S	S	V	Q	A	E	D	L	A	V	Y	Y	C	Q	T	D	
301	CAT	ATT	TAT	CCG	TAC	ACG	TTC	GGA	GGG	GGG	ACC	AAG	CTG	GAA	ATA	AAA	AAA	AAA	AAA	AAA	348
	H	I	Y	P	Y	T	F	G	G	G	T	K	L	E	I	K					

FIG.3B

FIG. 4



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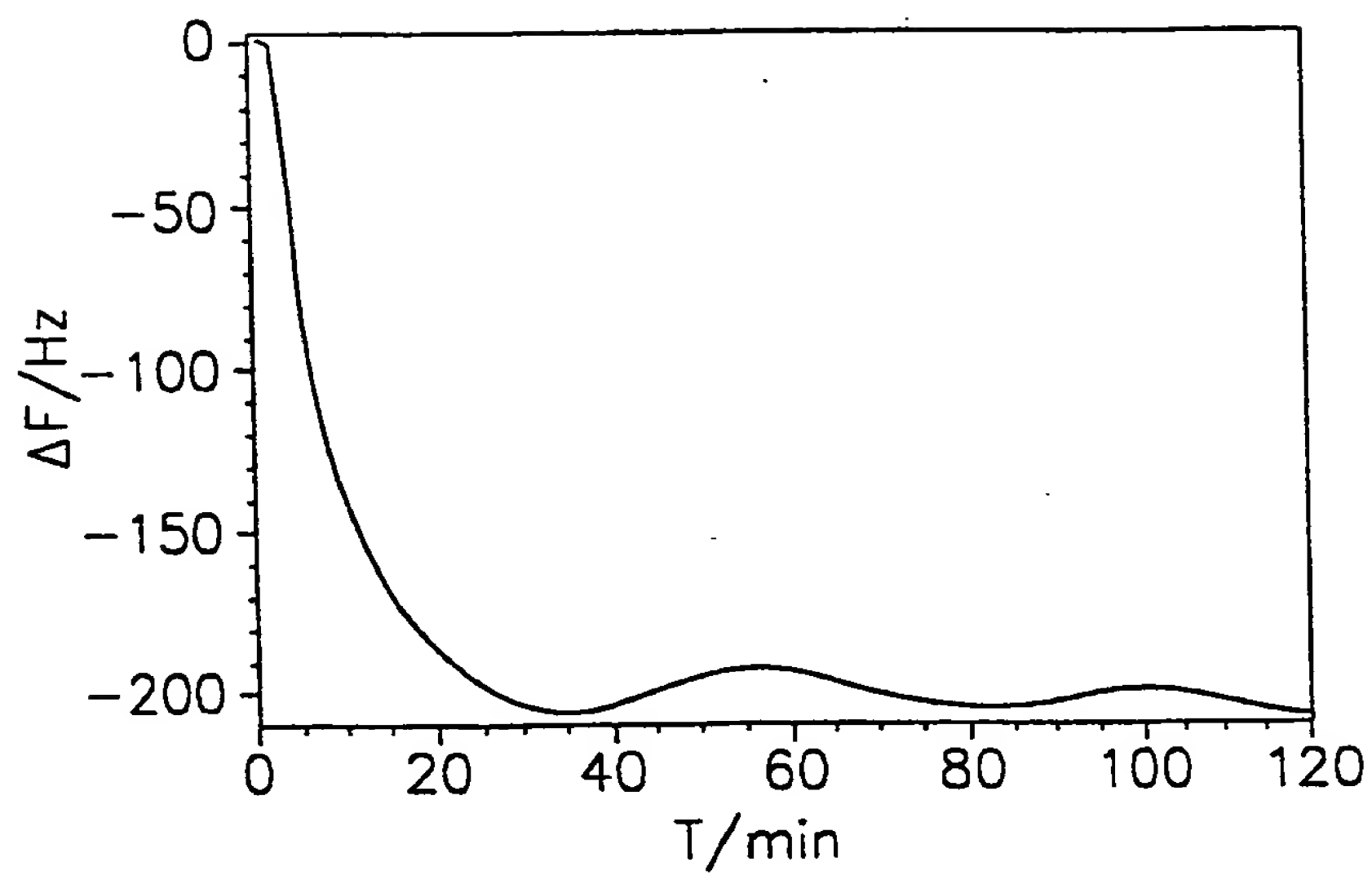


FIG. 5

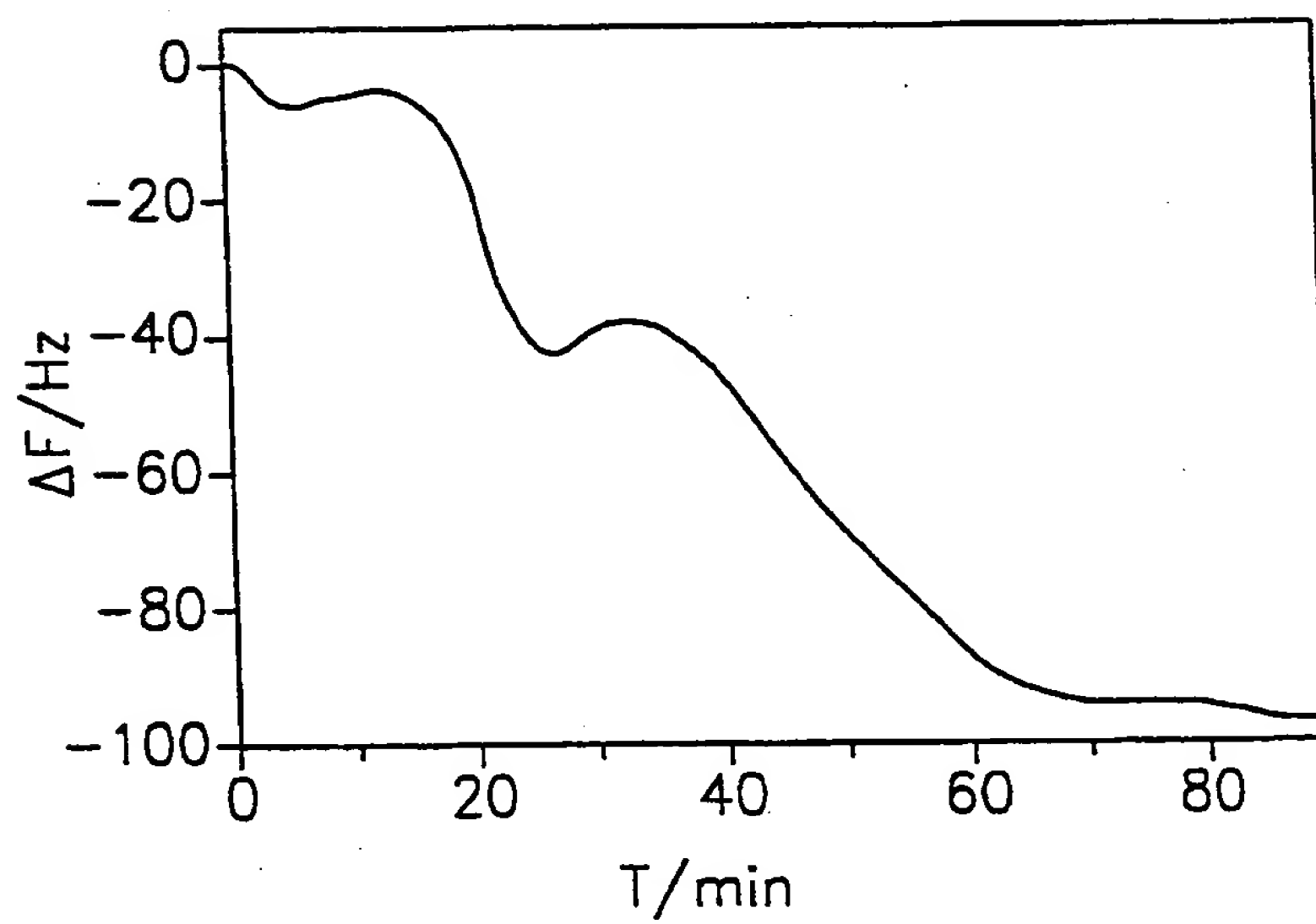


FIG. 6

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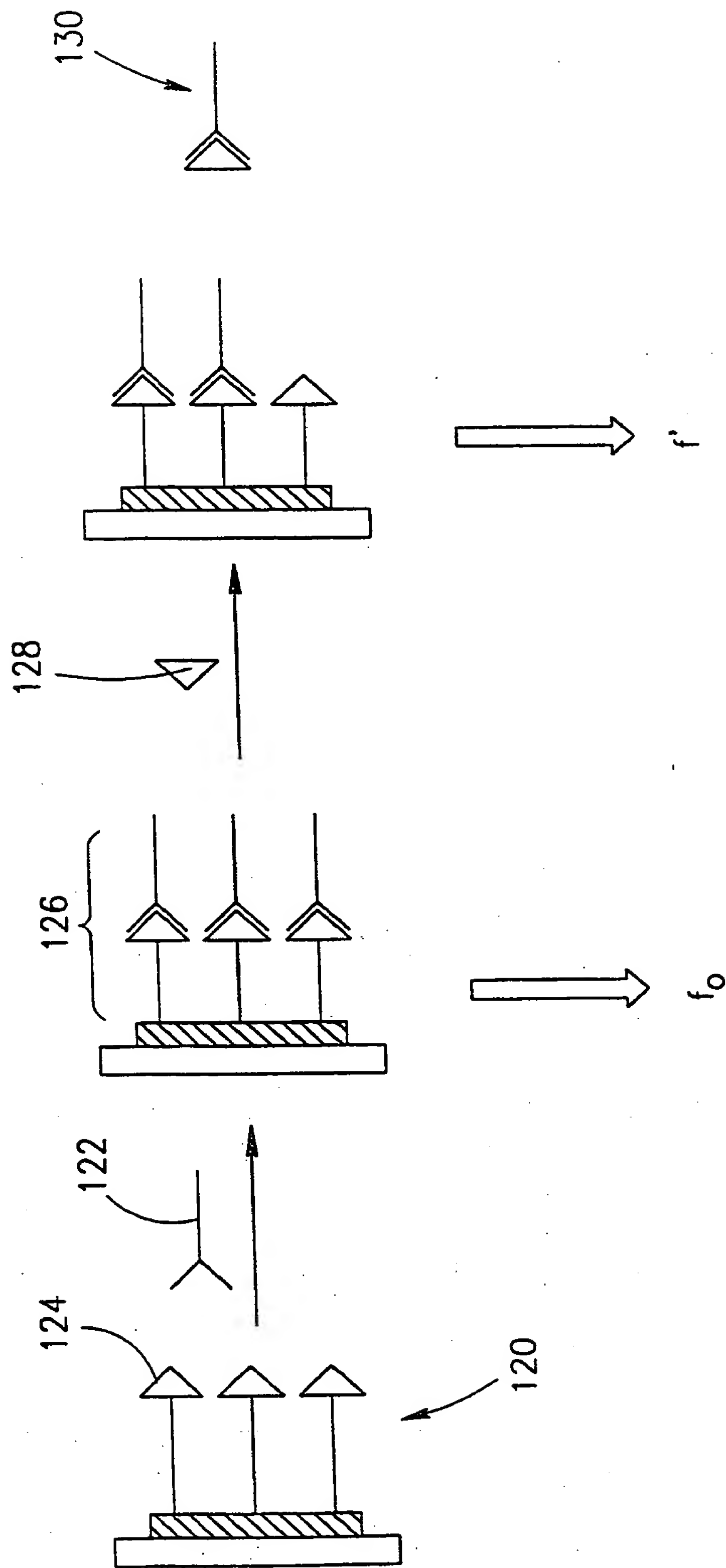


FIG. 7

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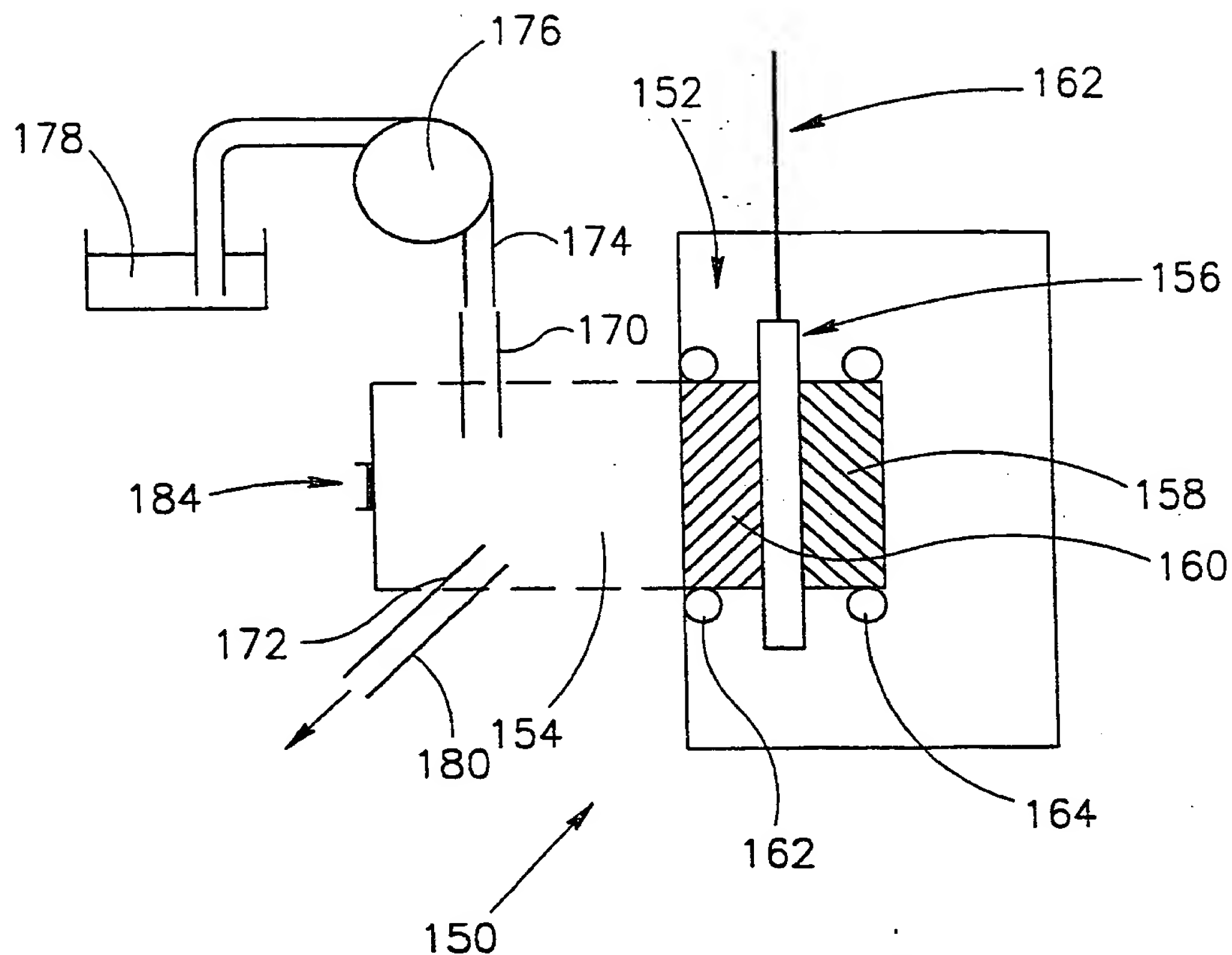


FIG.8

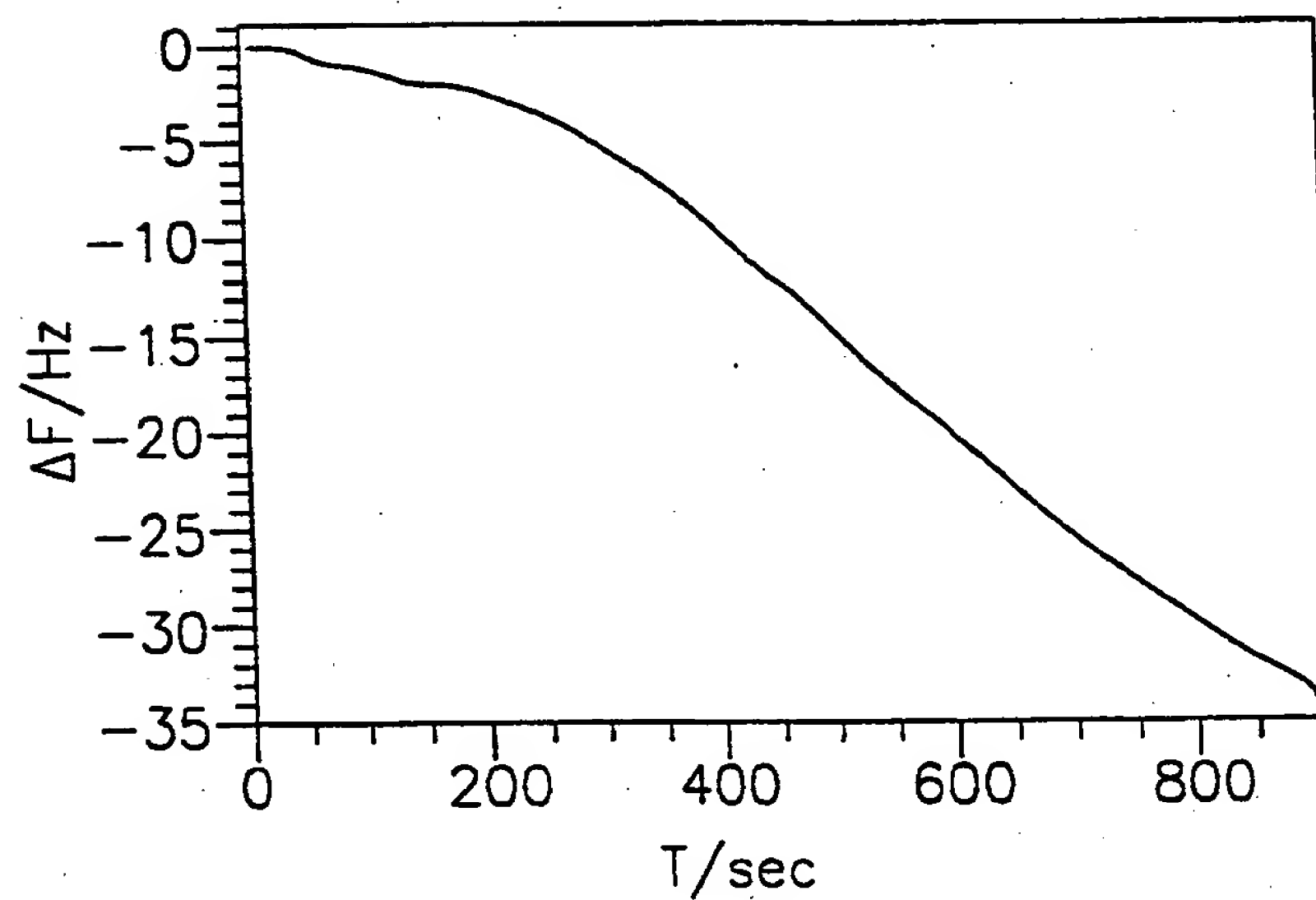


FIG.9

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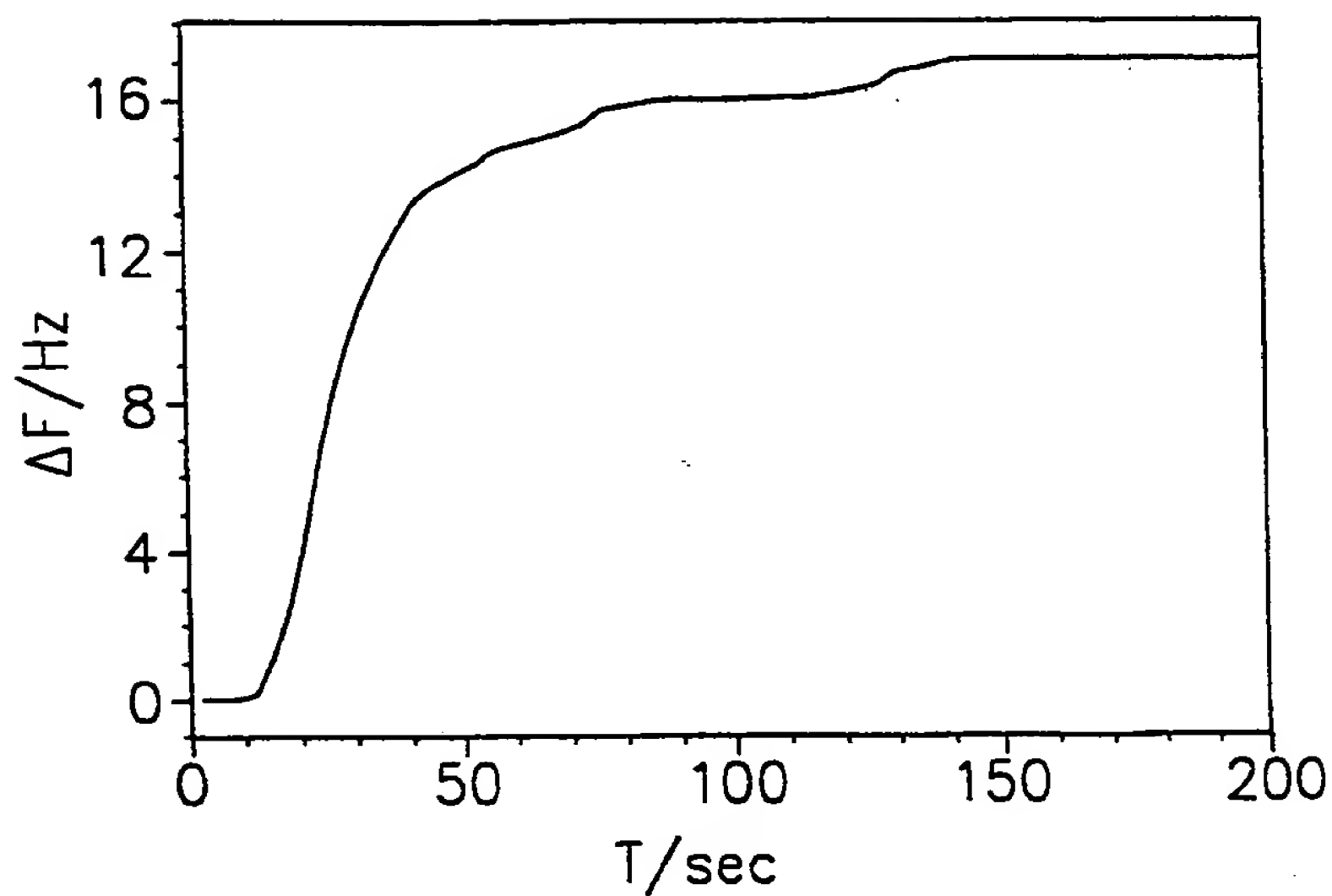


FIG.10

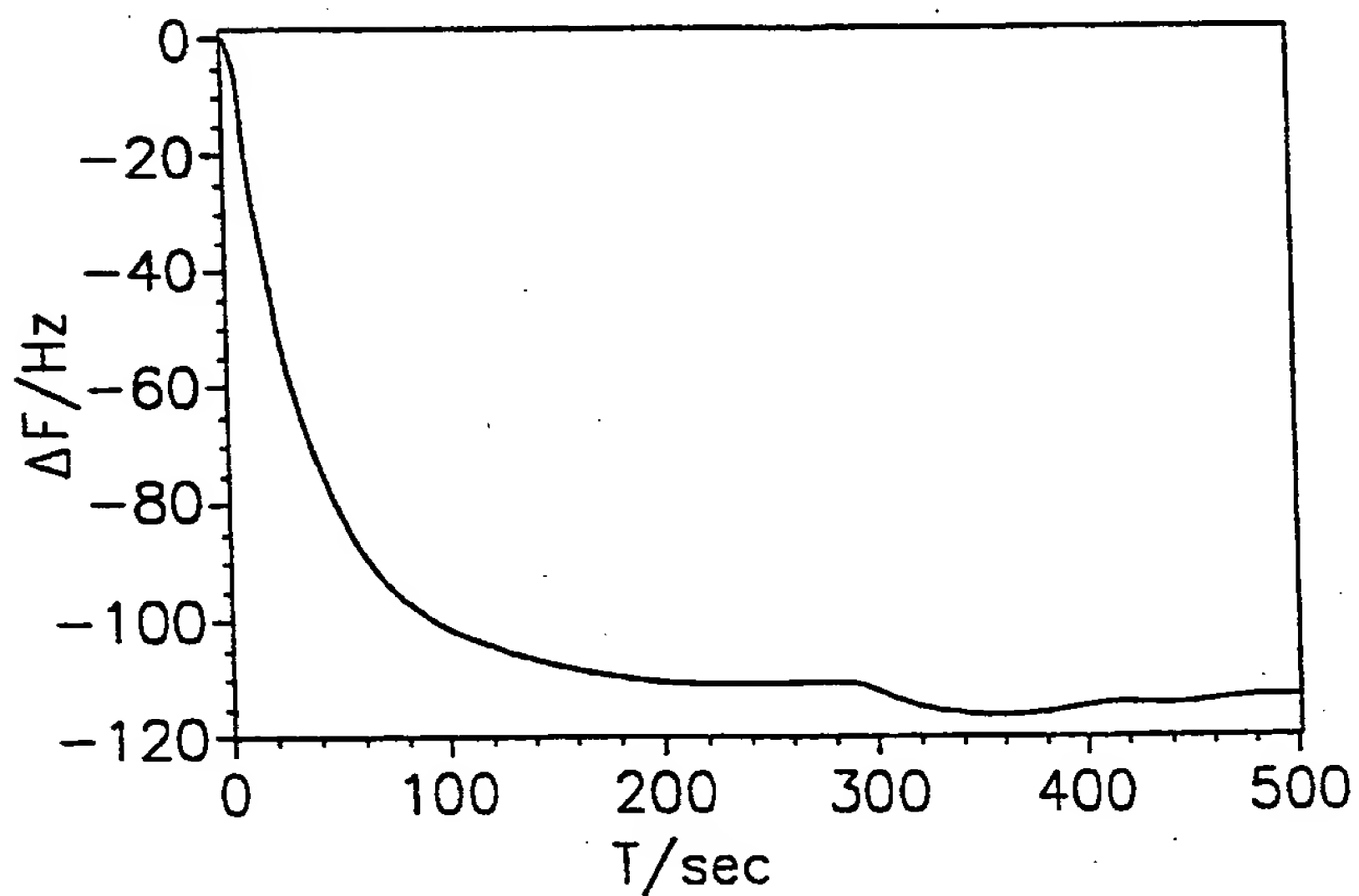


FIG.11

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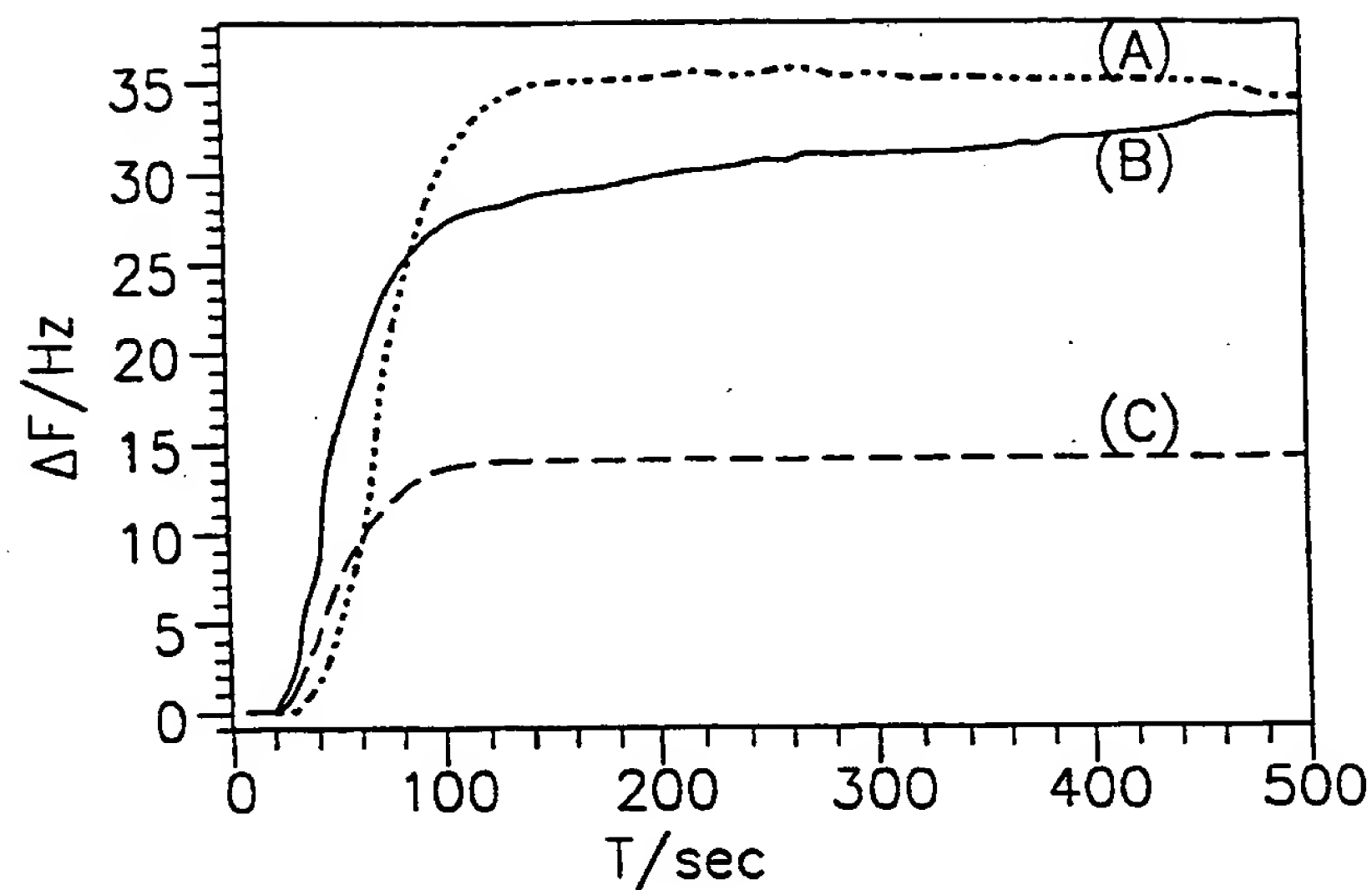


FIG.12

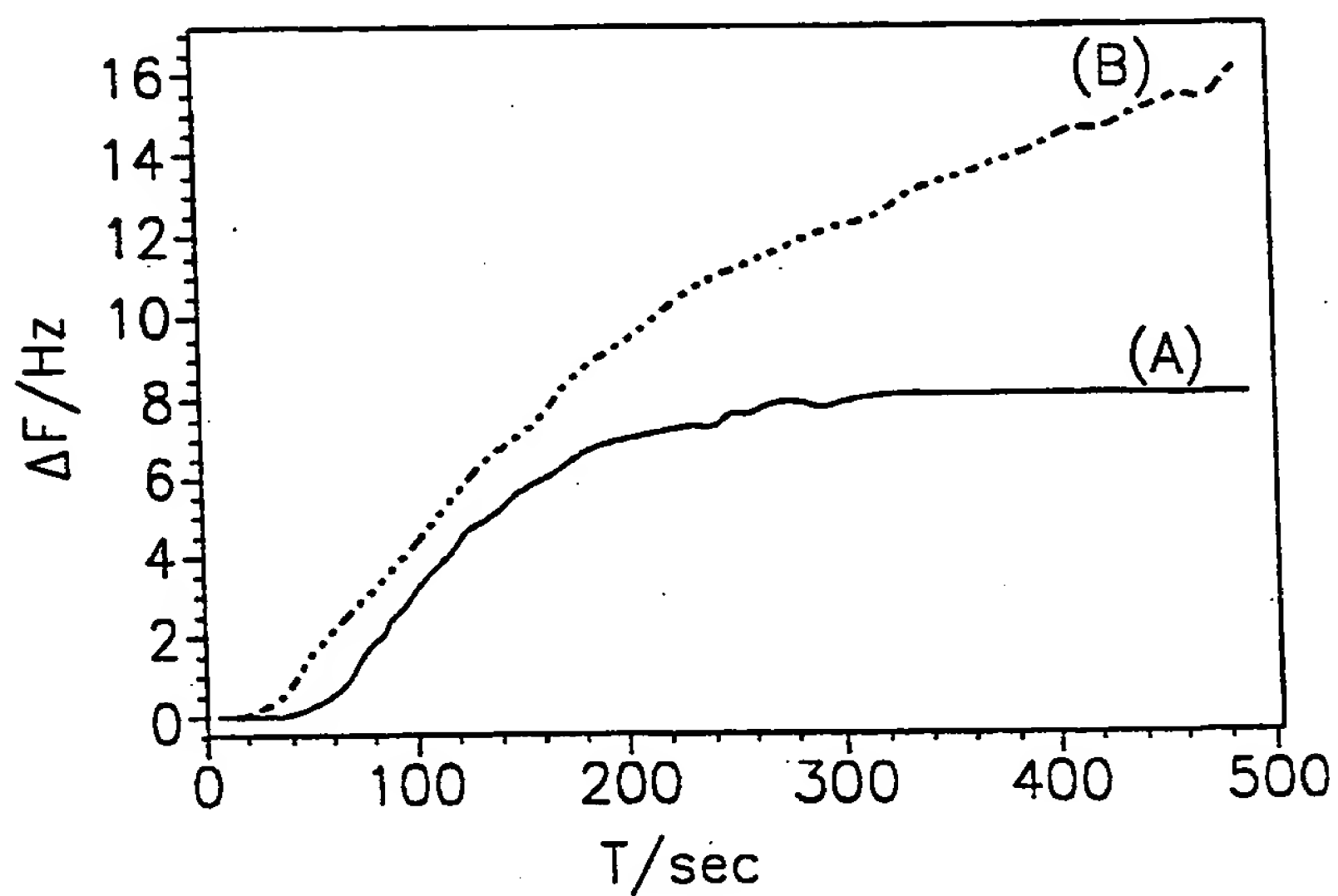


FIG.13

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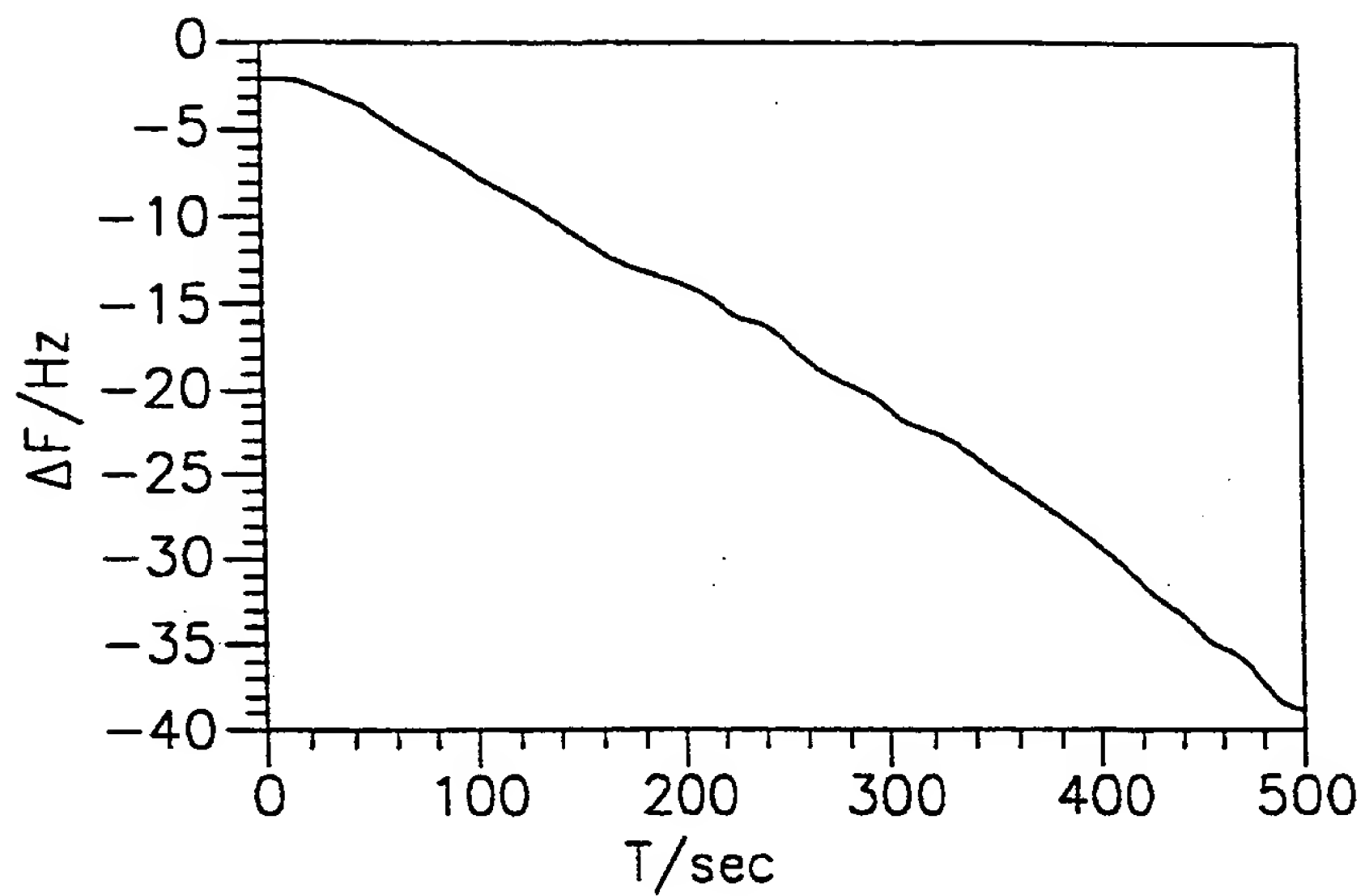


FIG.14

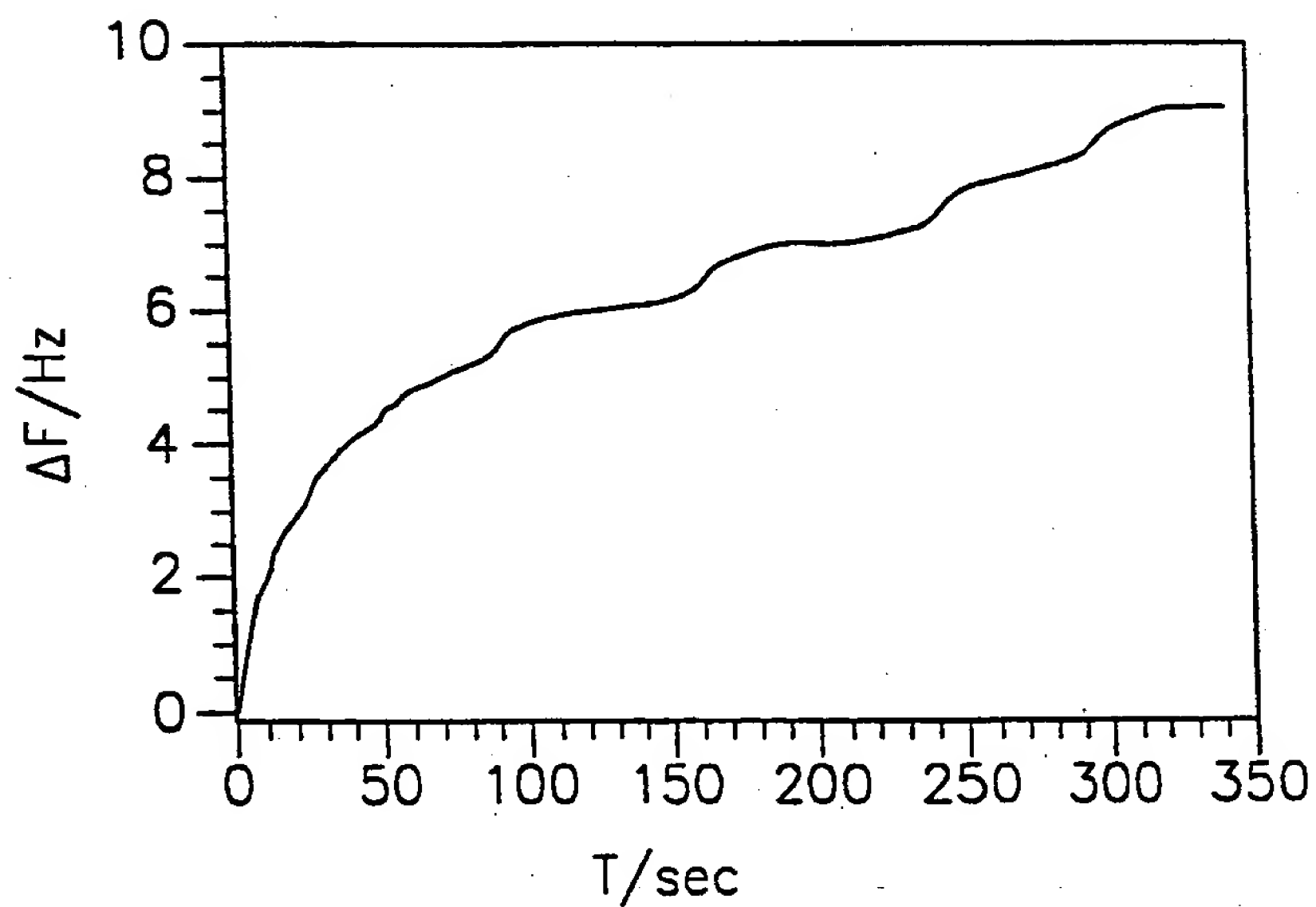


FIG.15

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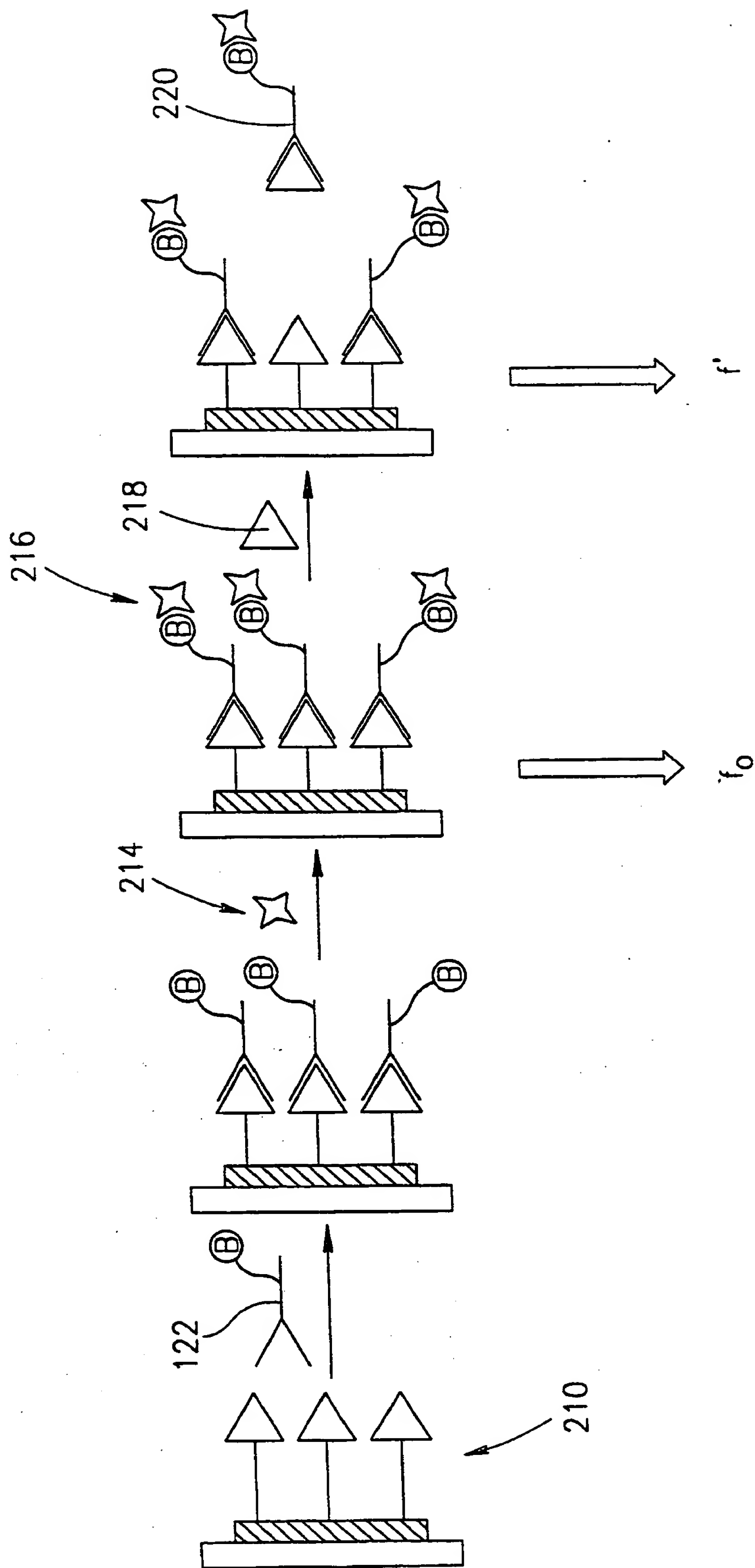


FIG.16

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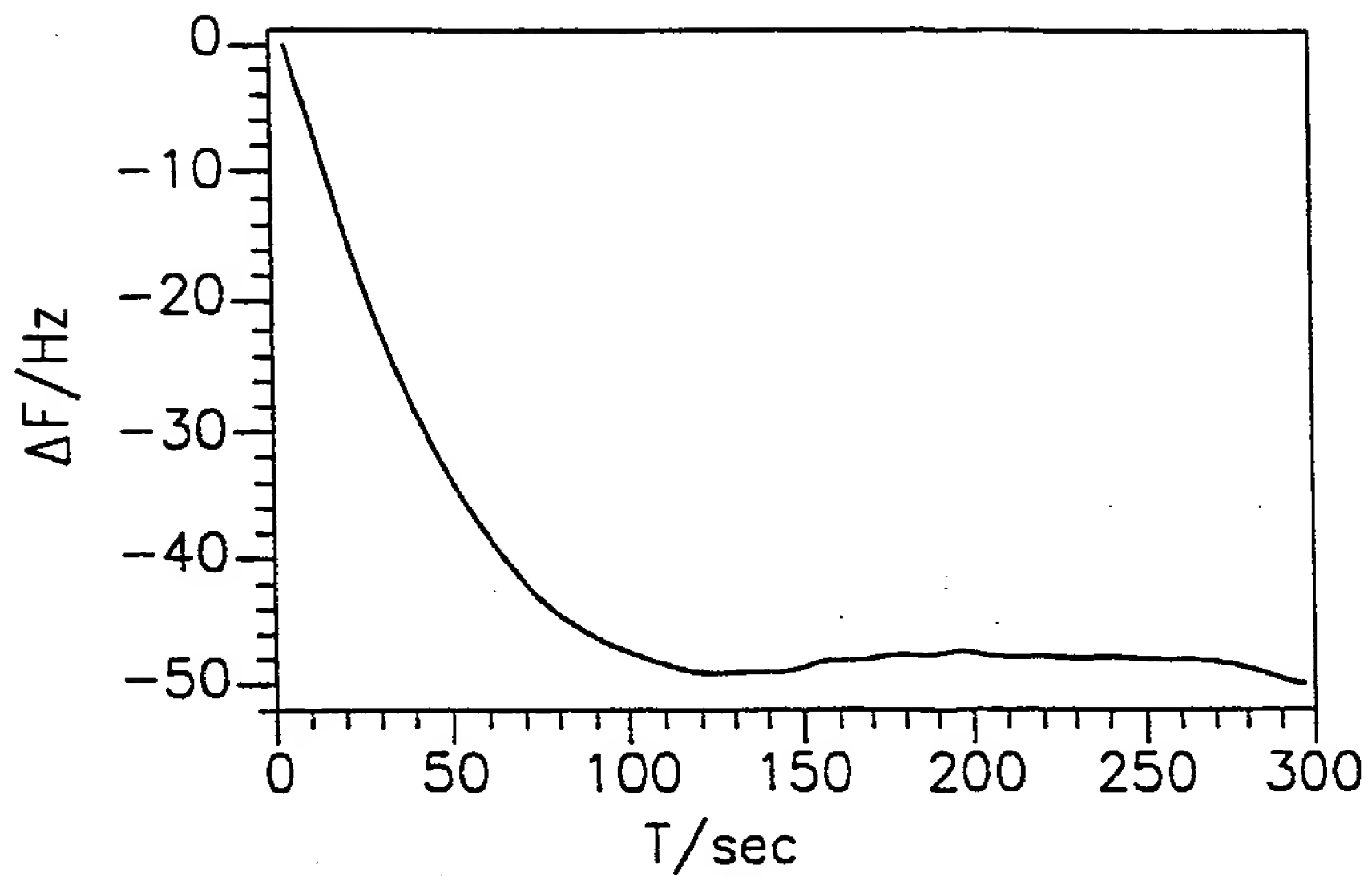


FIG.17

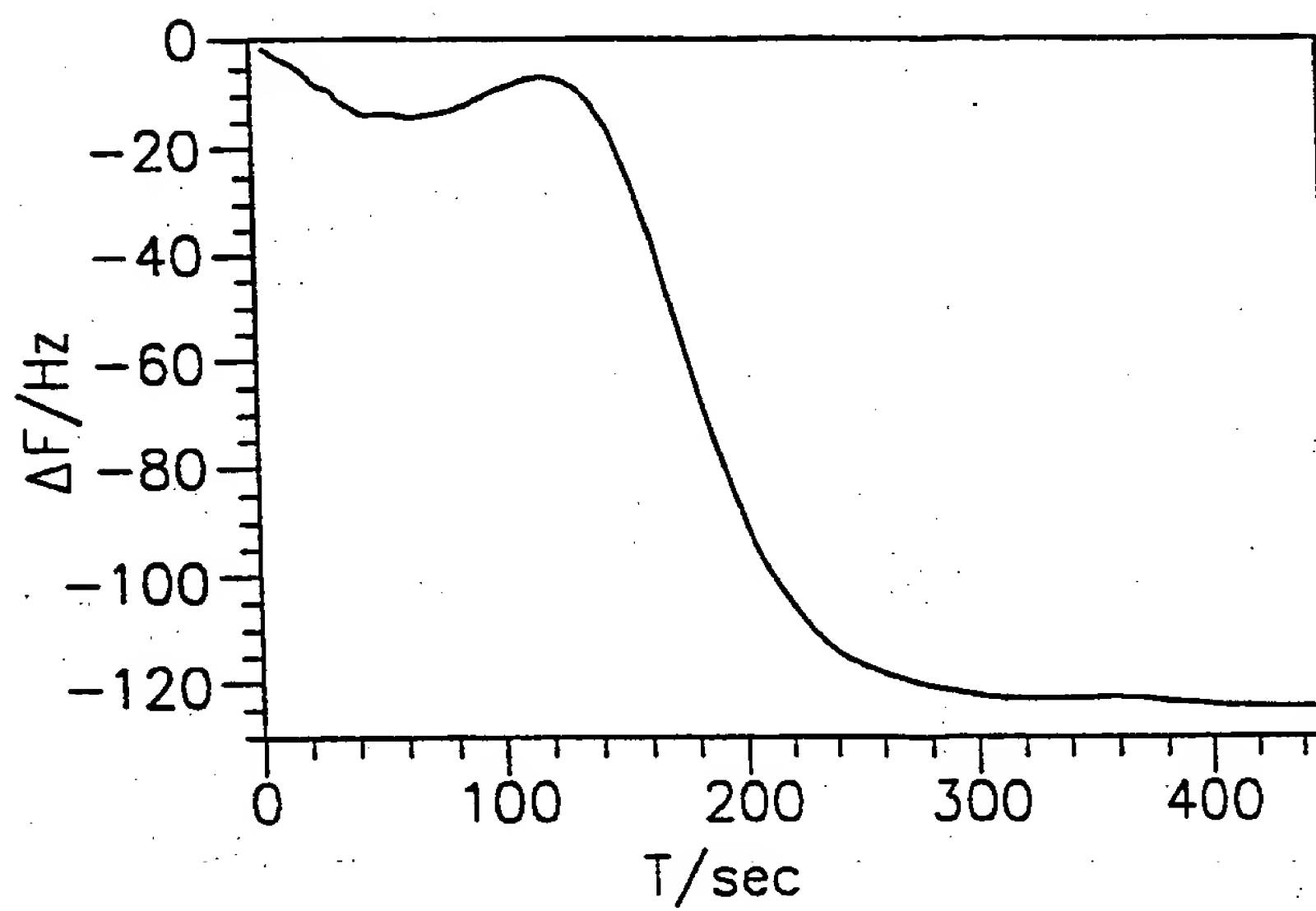


FIG.18

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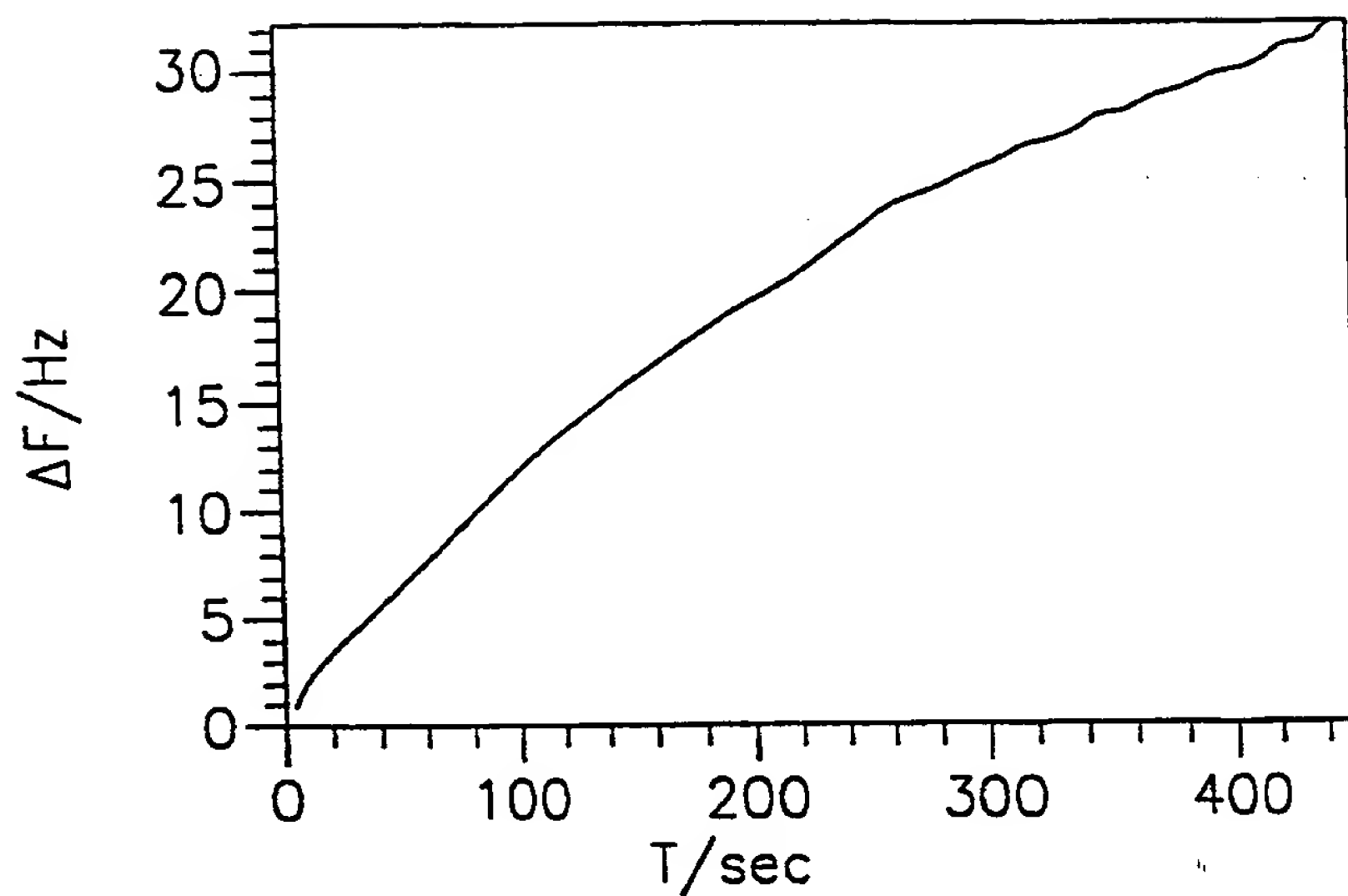


FIG.19

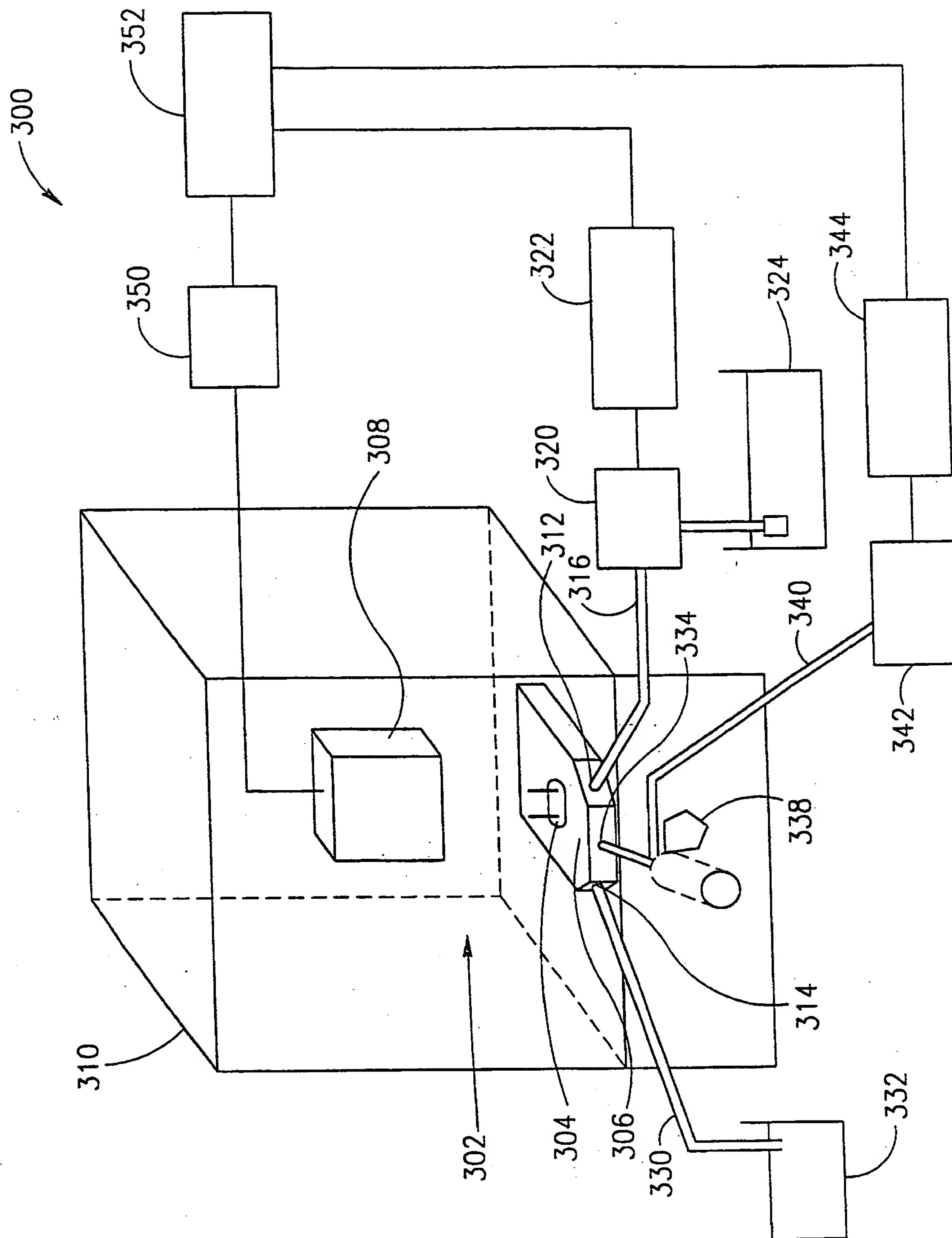


FIG. 20

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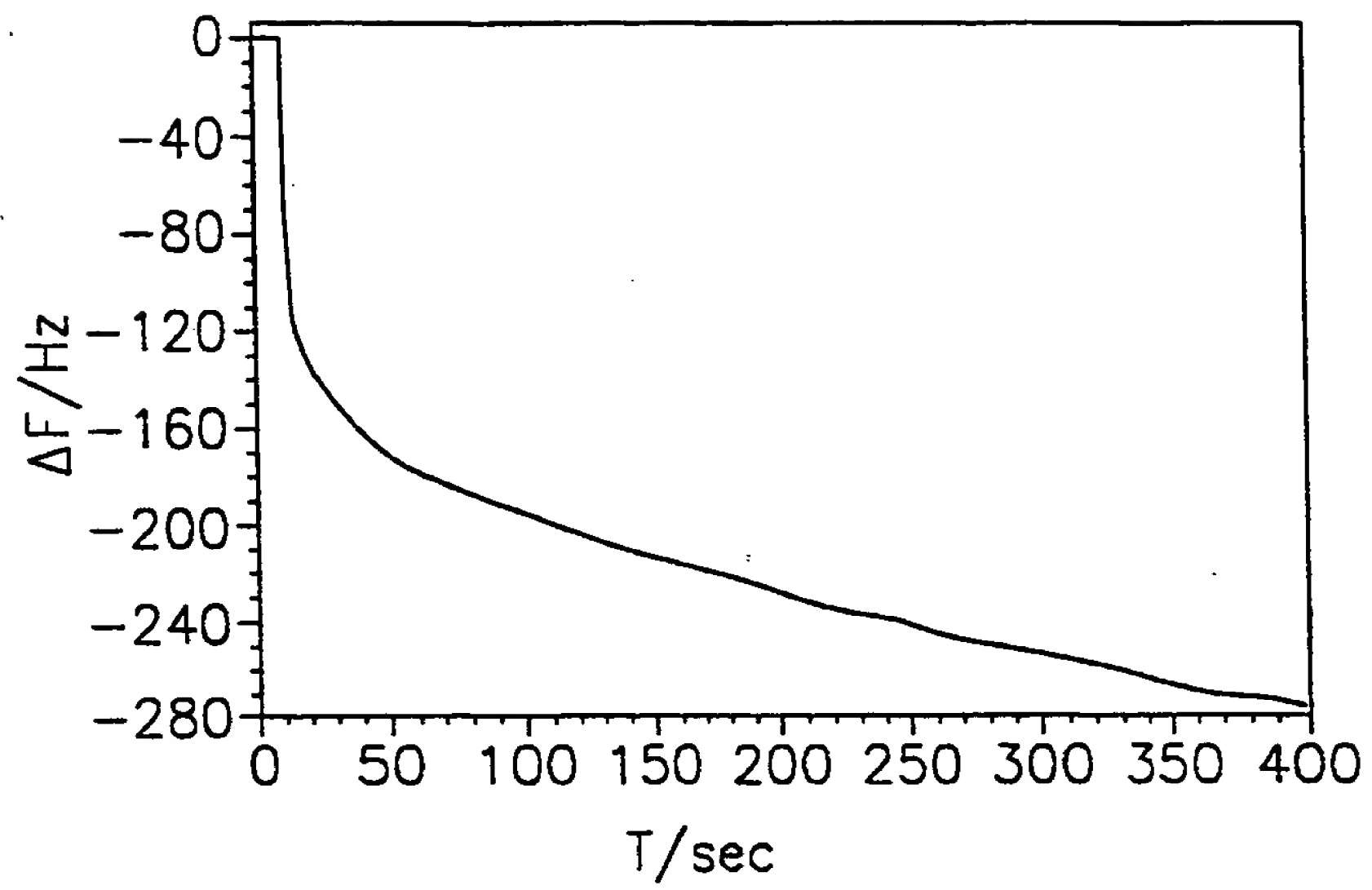


FIG.21

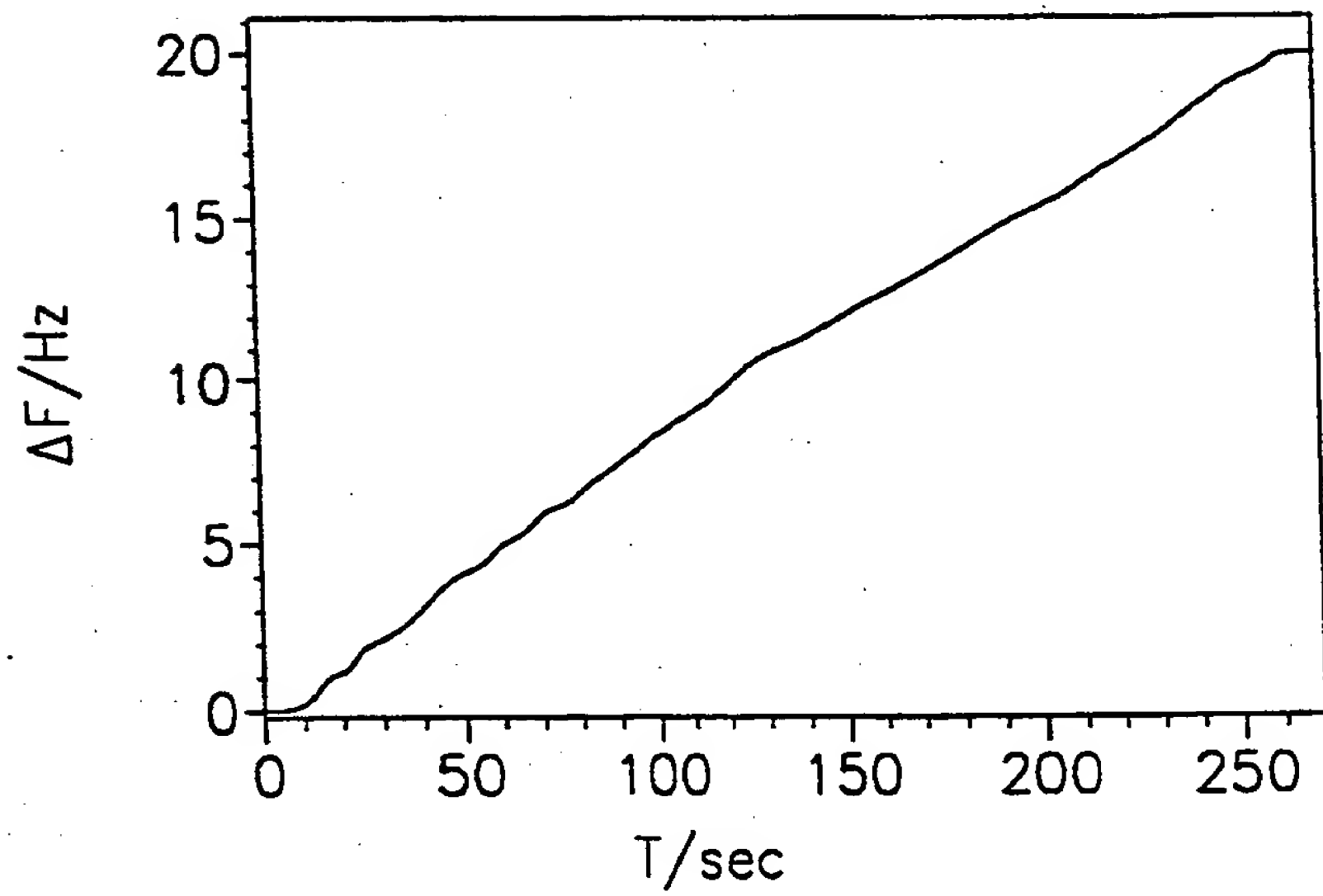


FIG.22

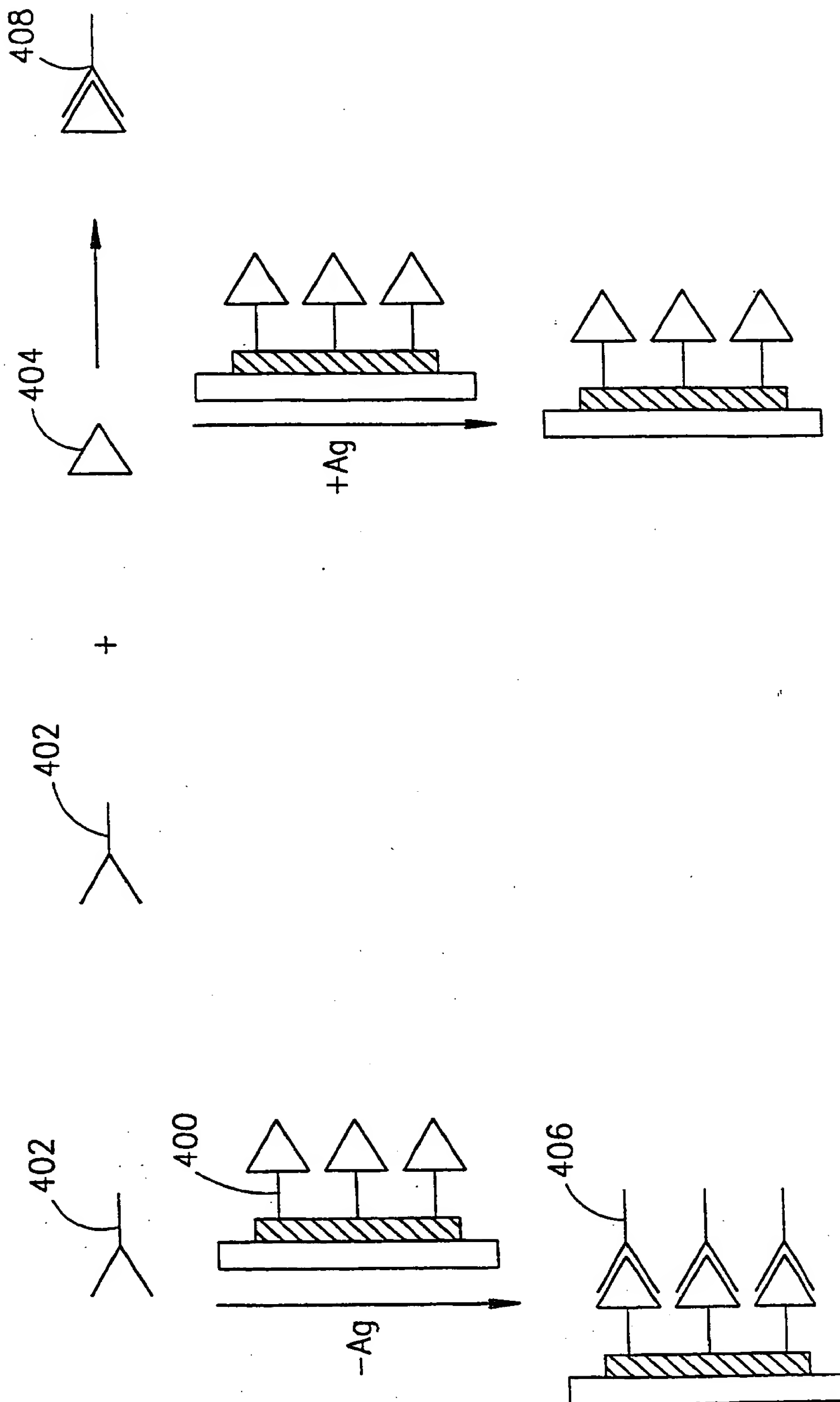


FIG.23

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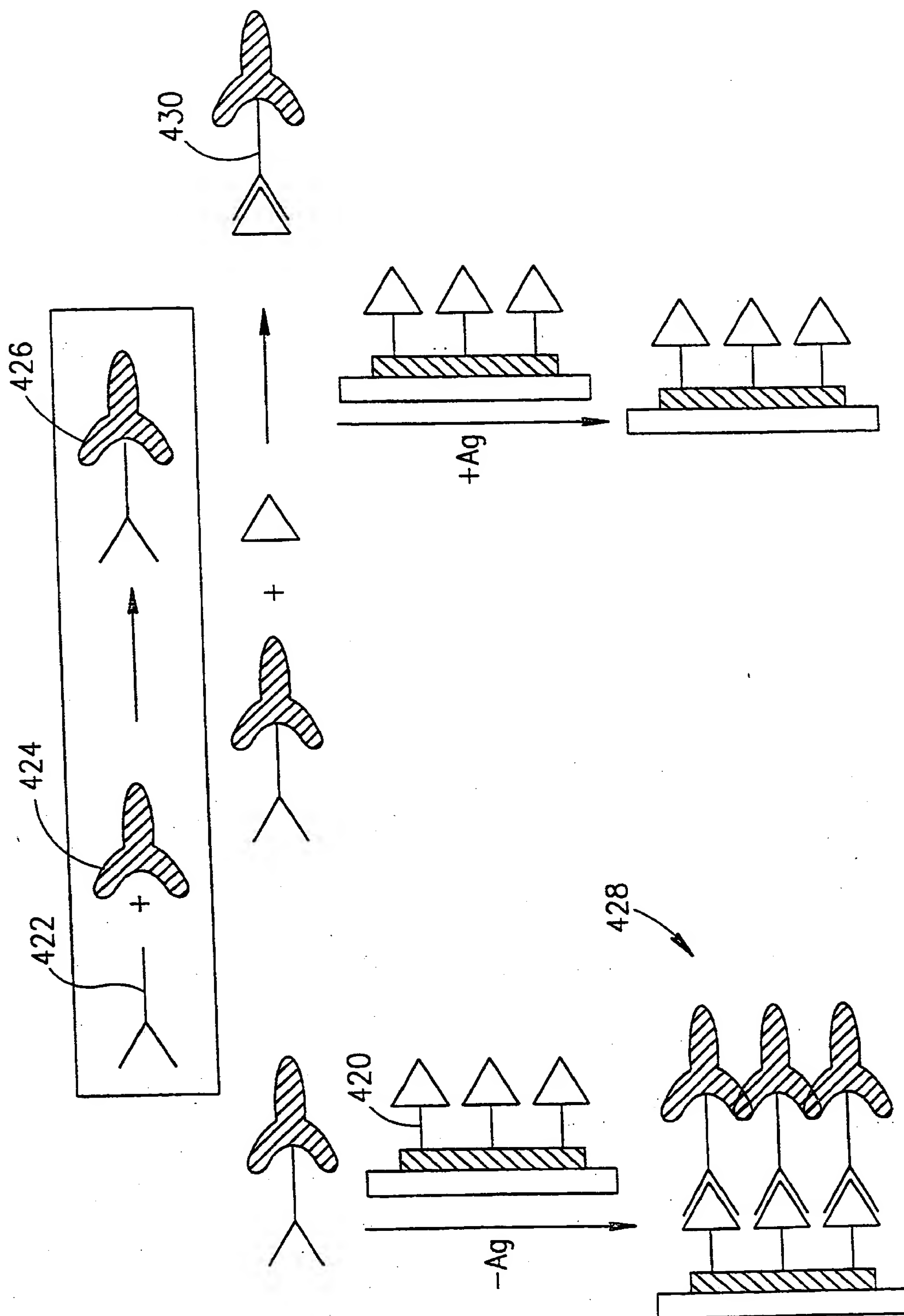


FIG.24

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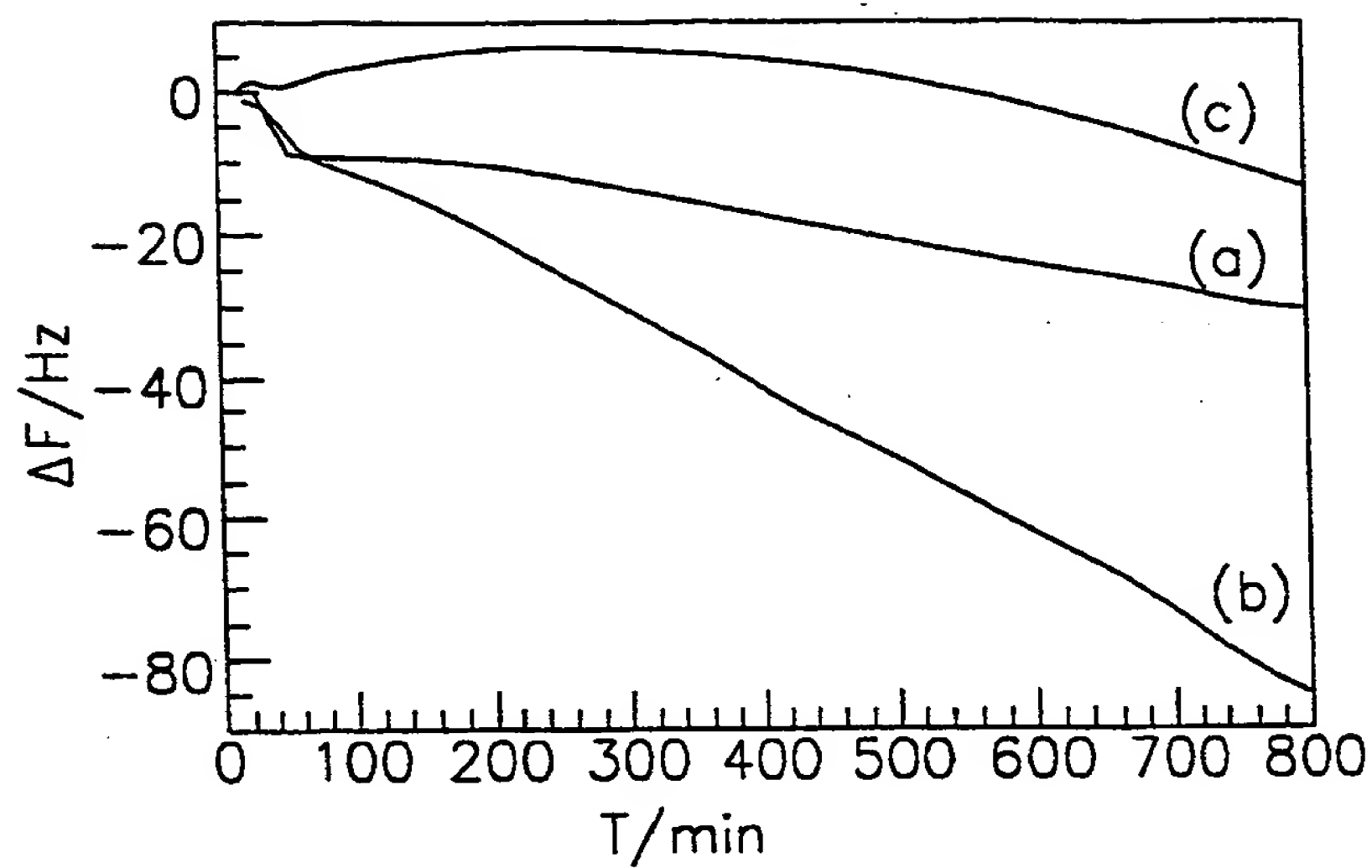


FIG.25

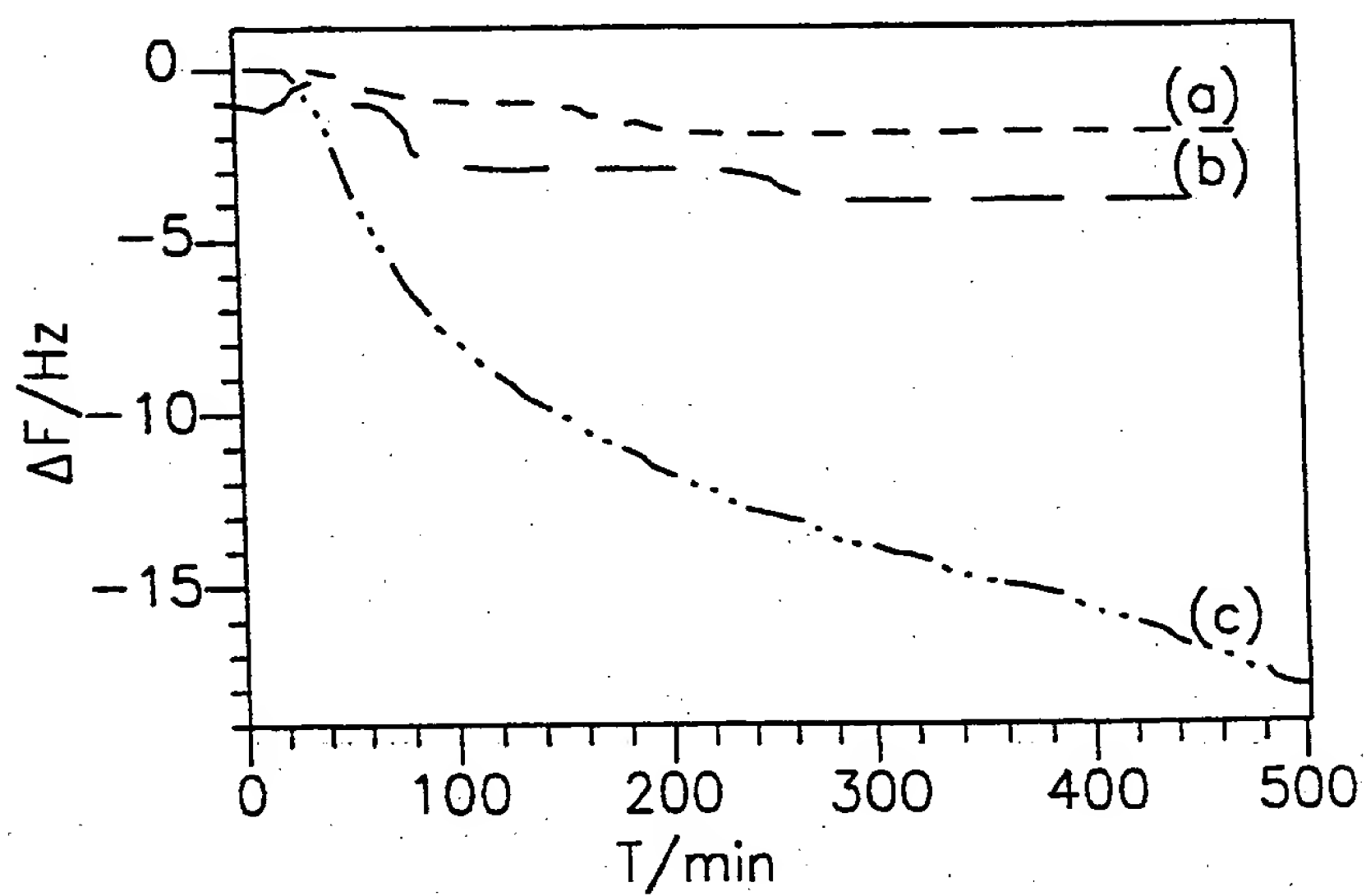


FIG.26

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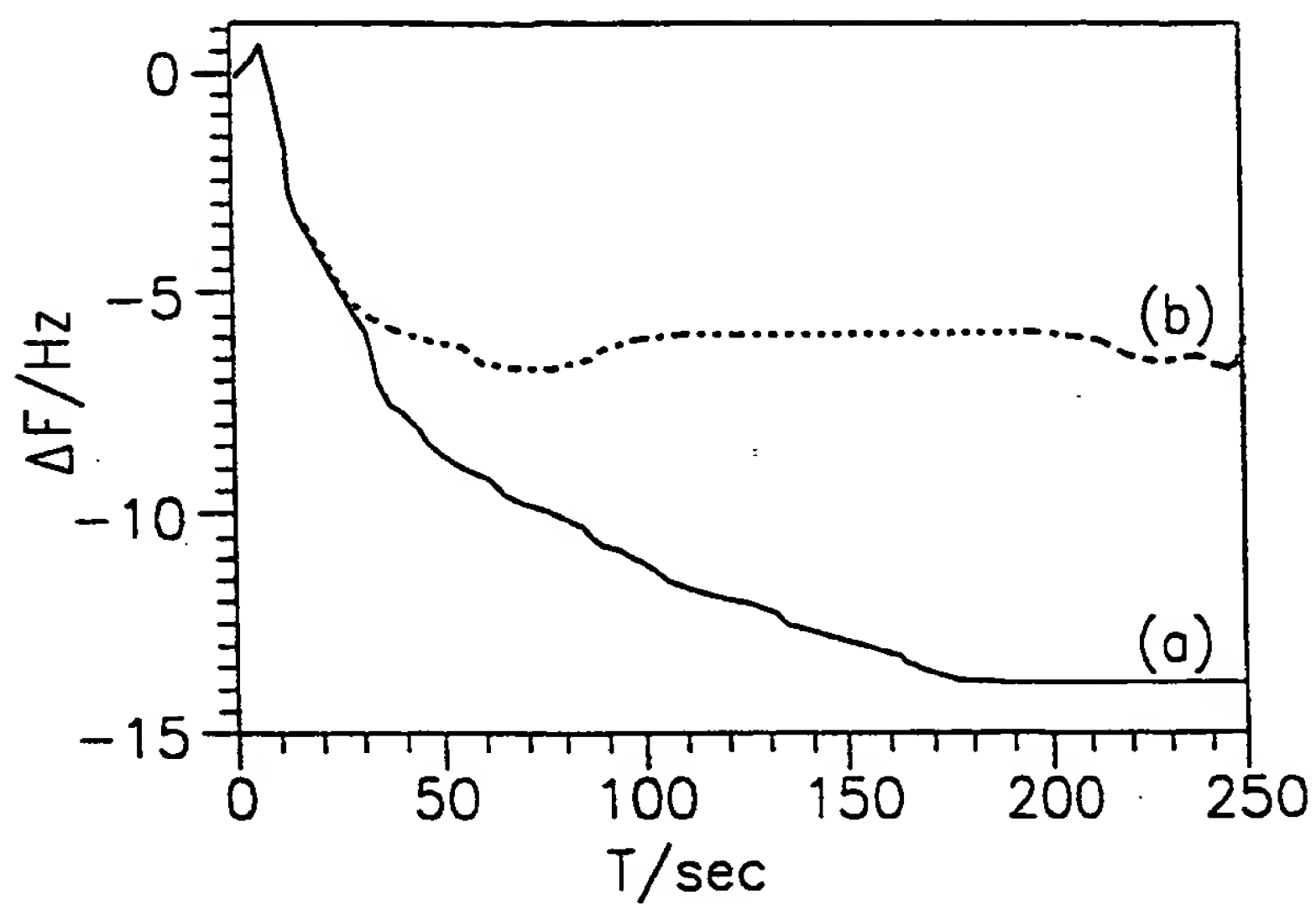


FIG.27A

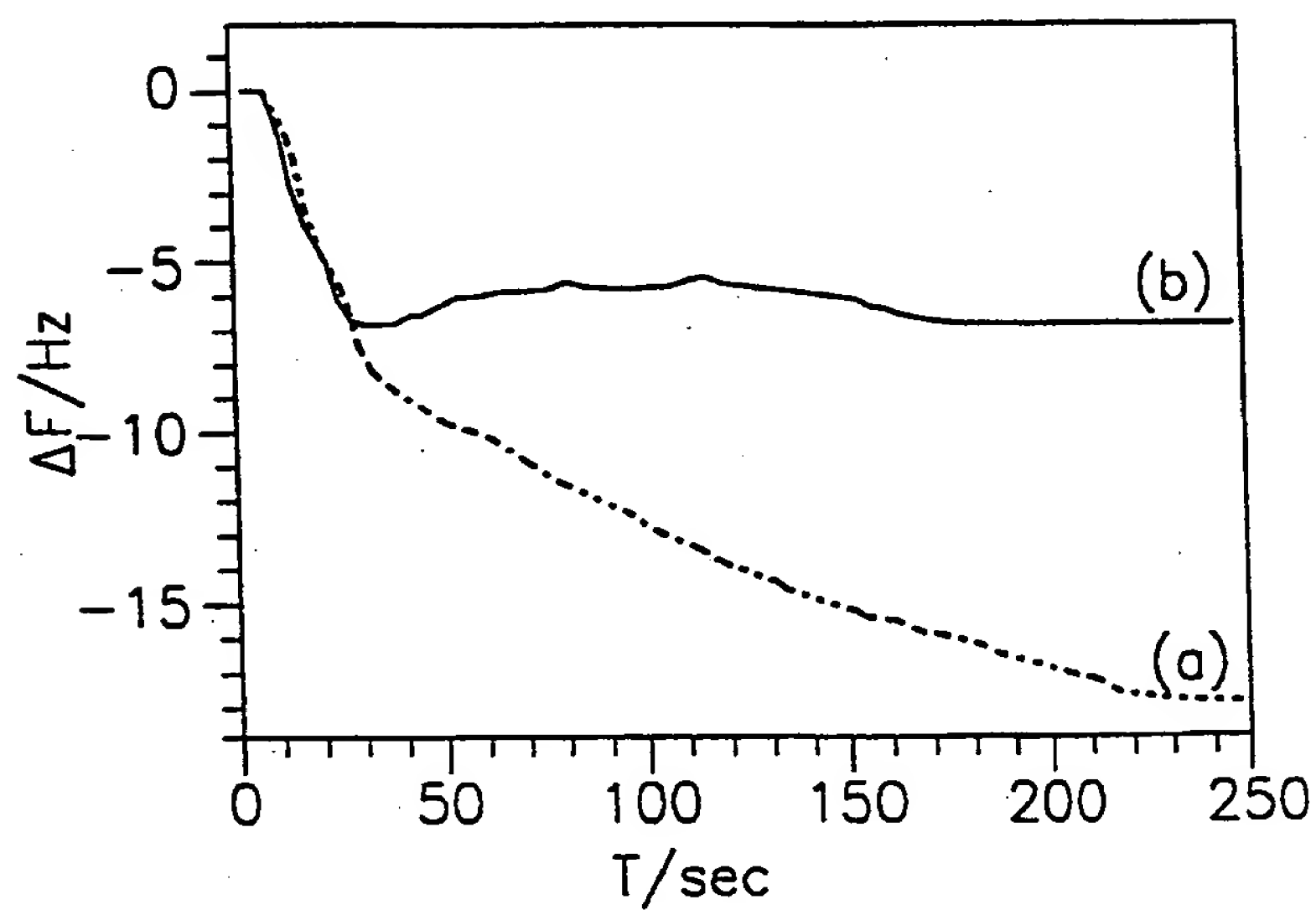


FIG.27B

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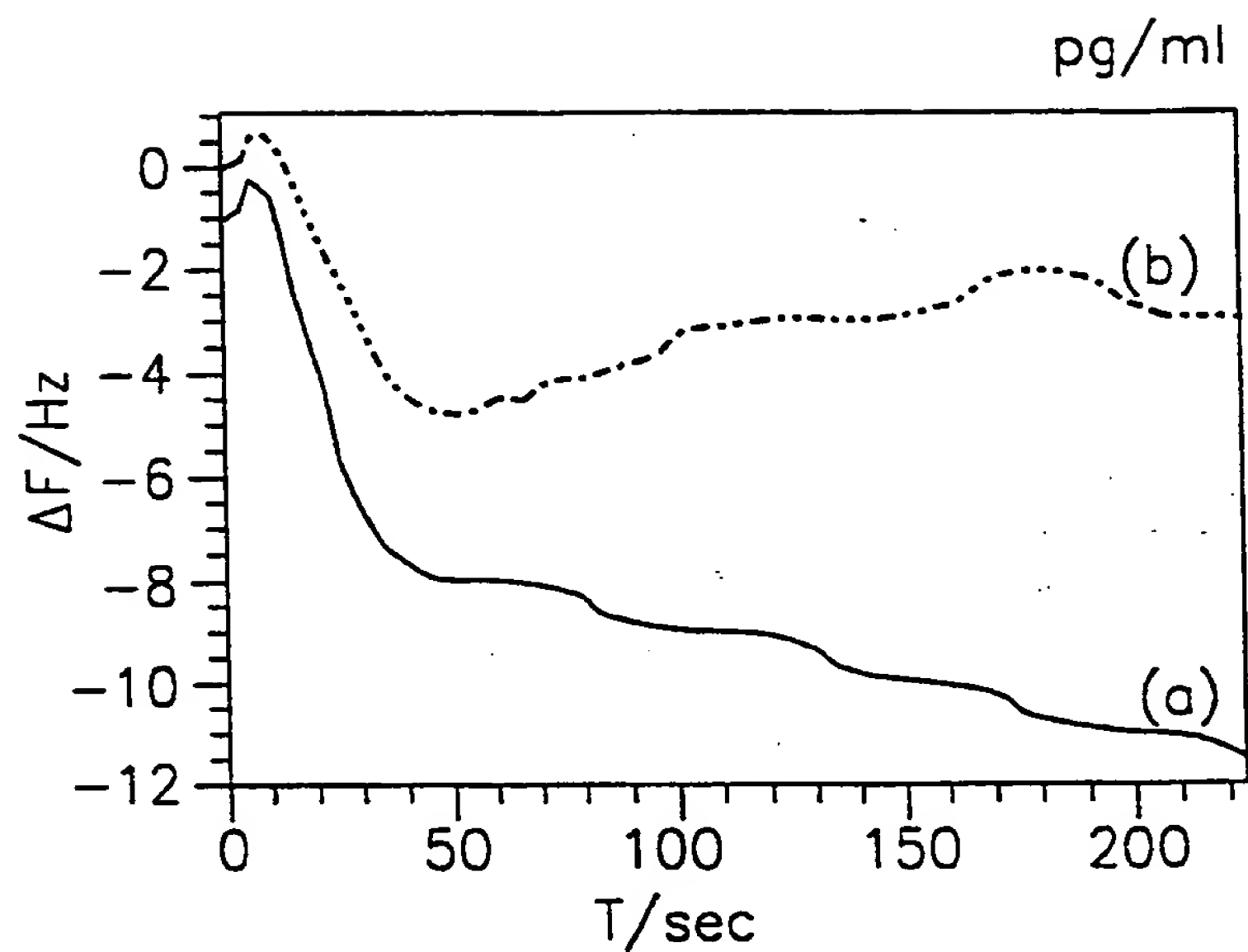


FIG.27C

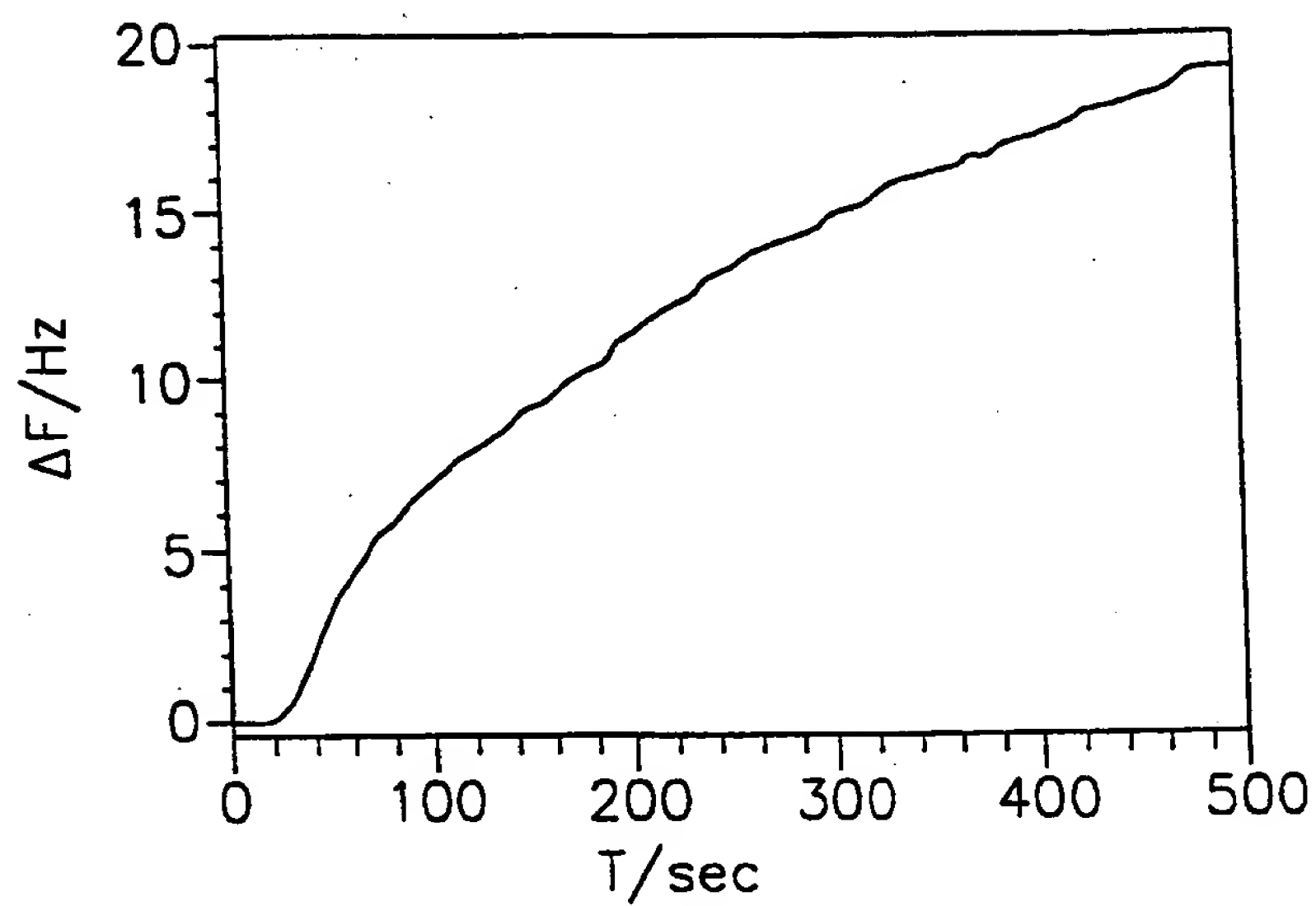


FIG.28A

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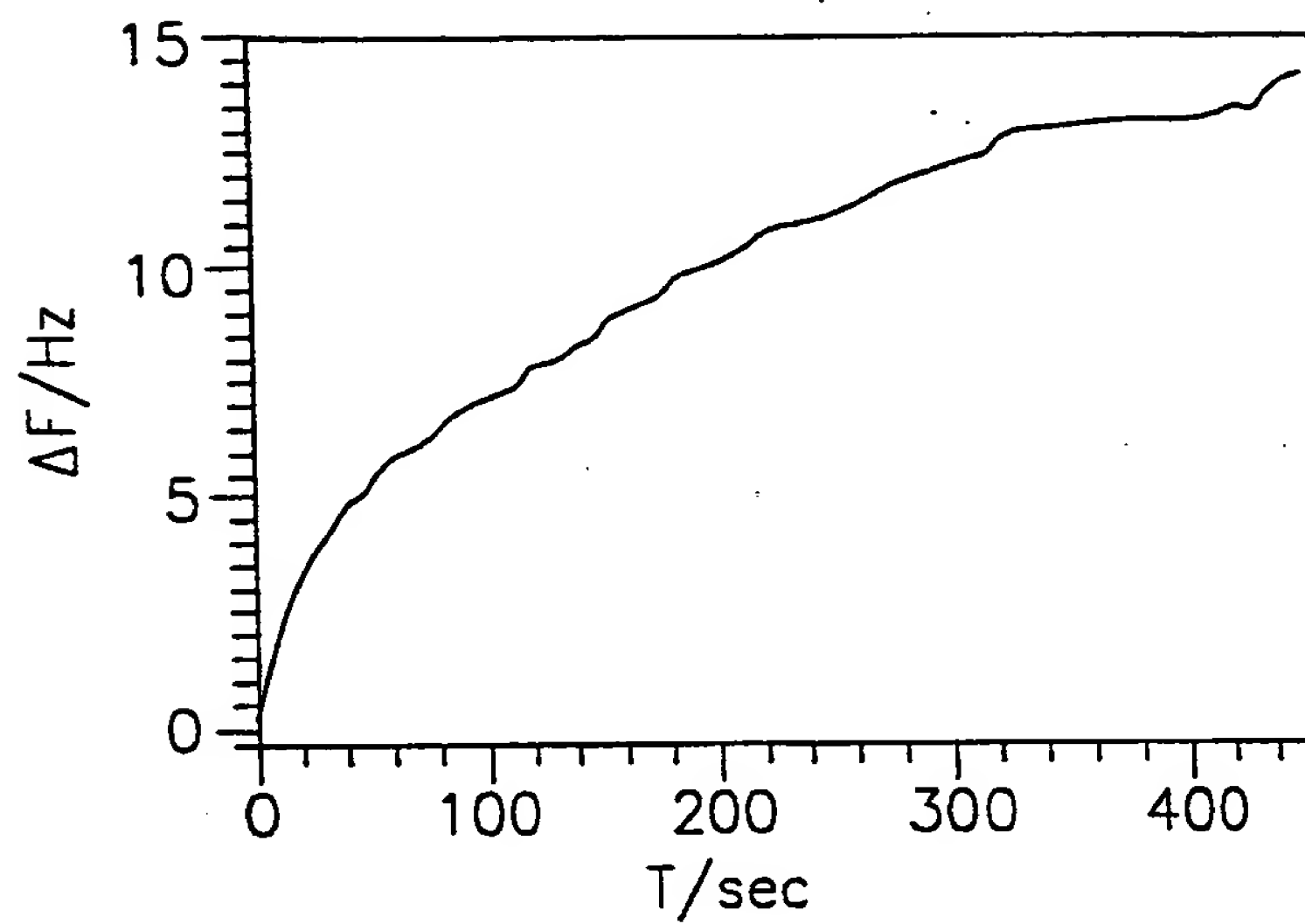


FIG.28B

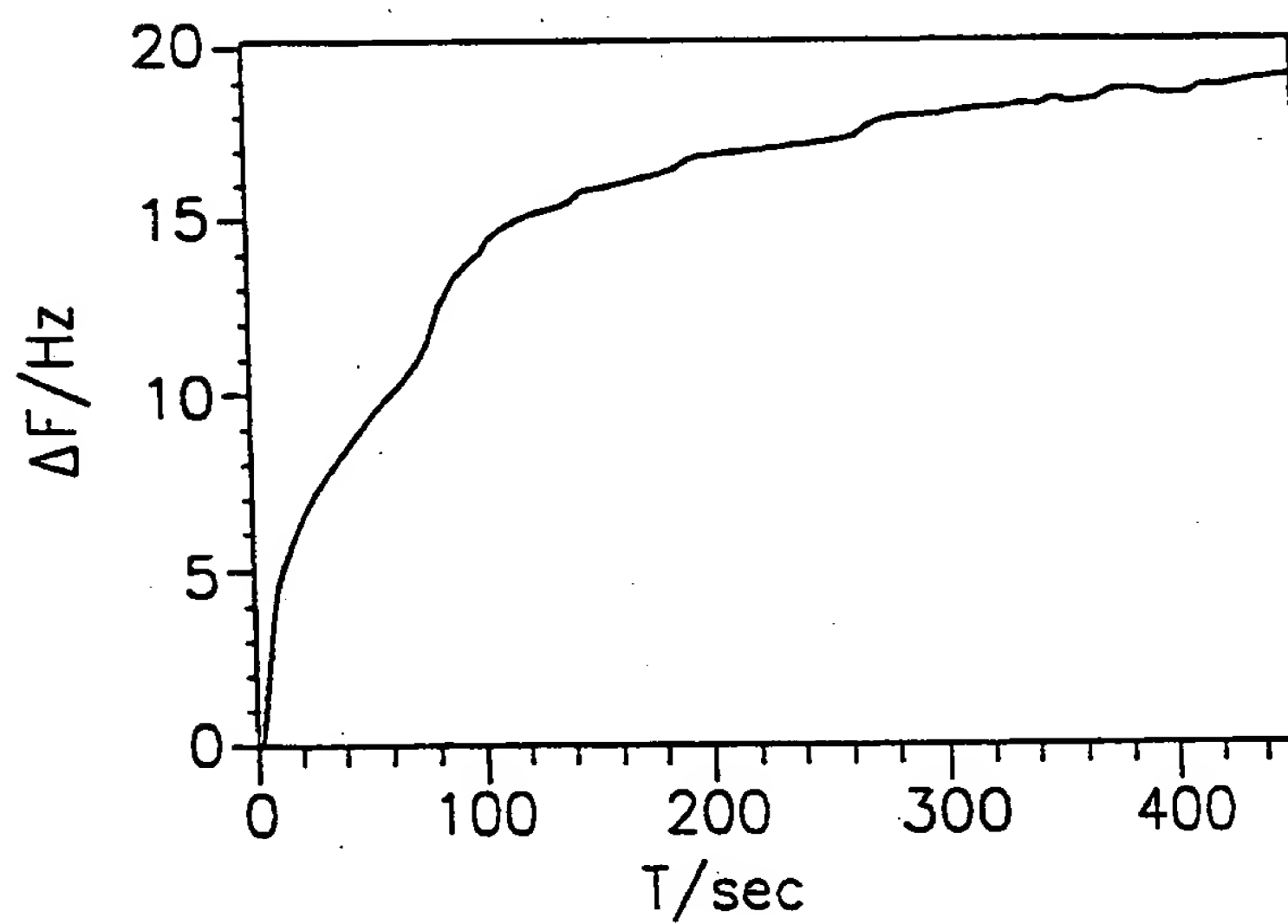


FIG.28C

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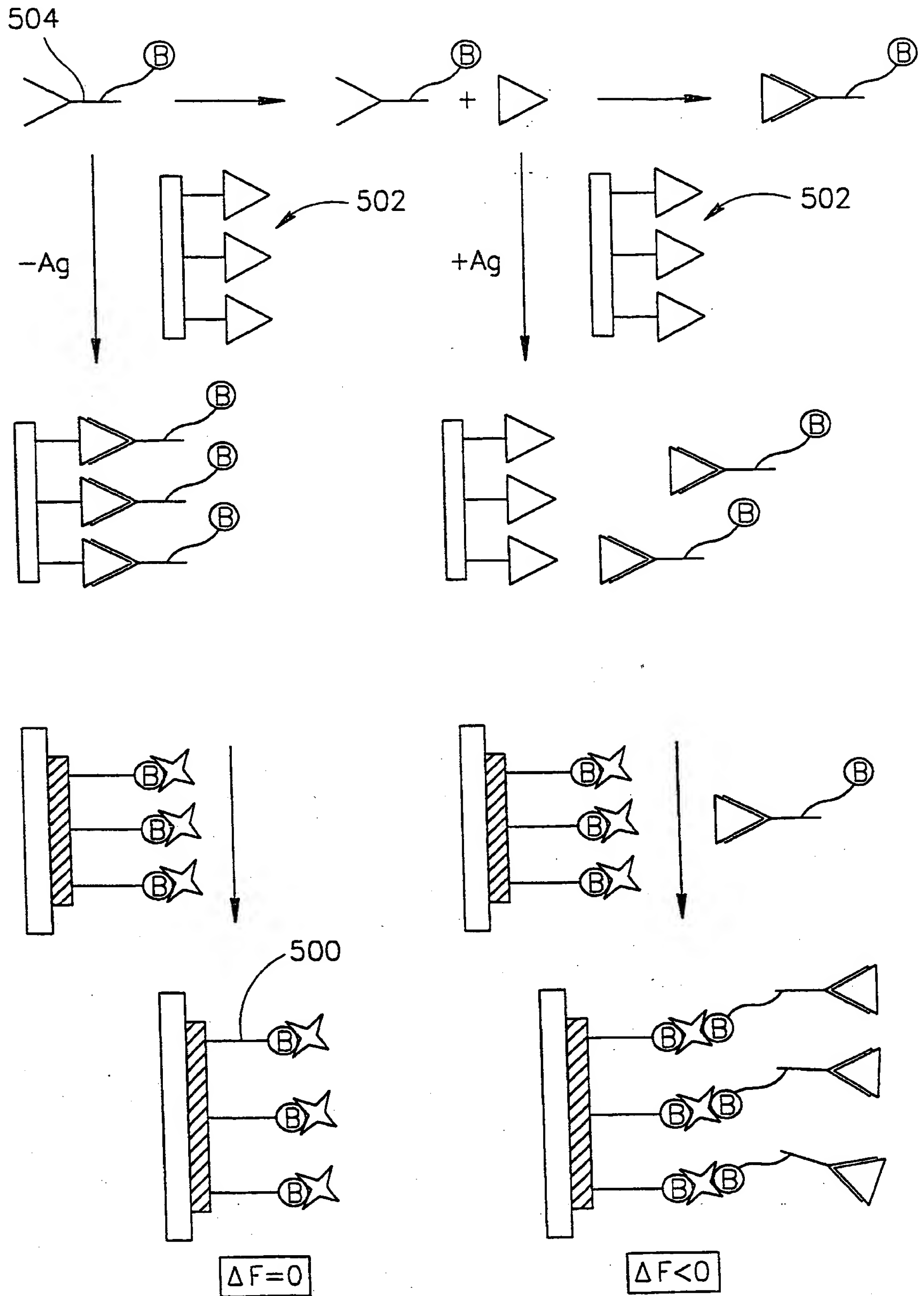


FIG.29

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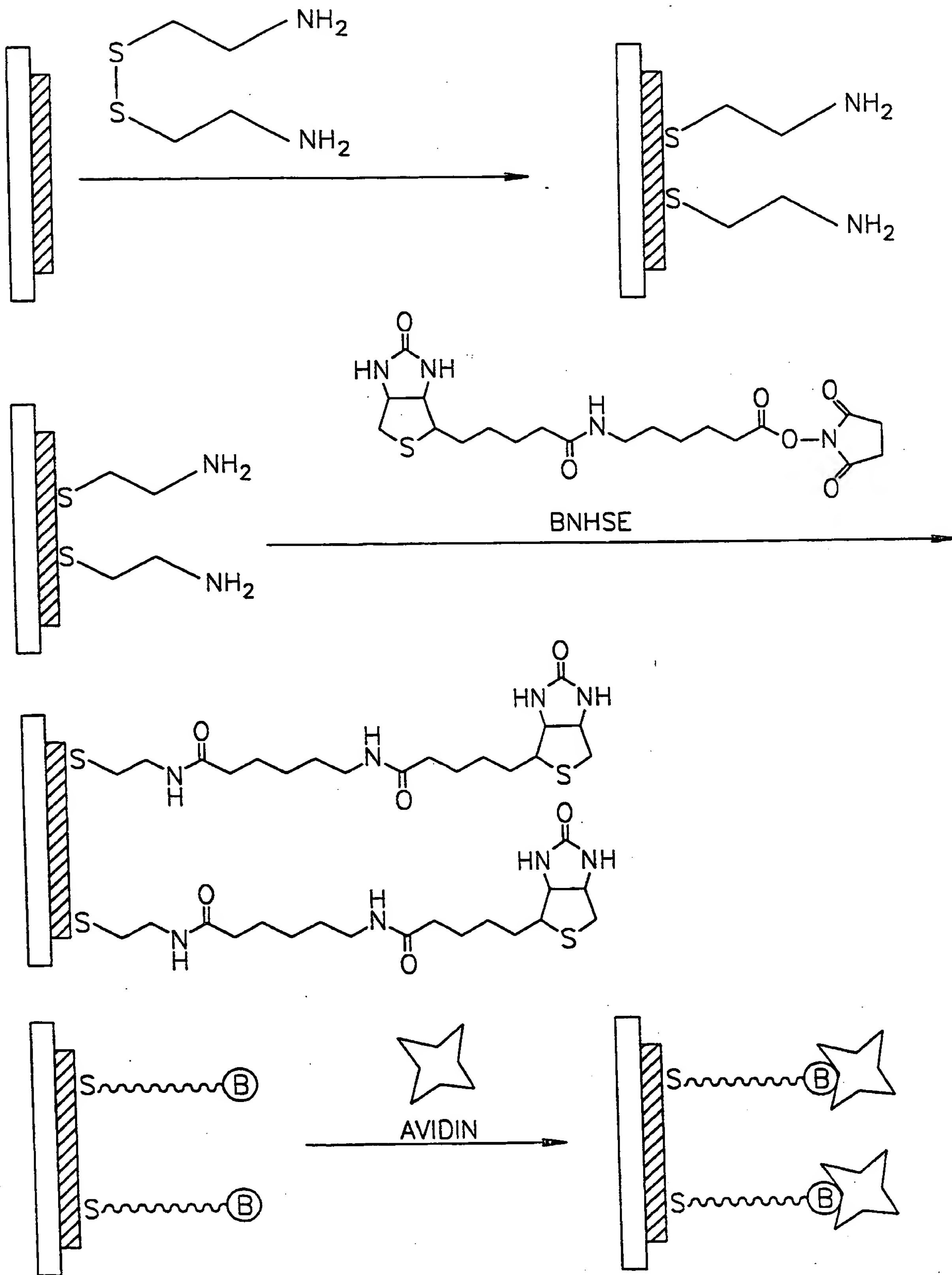


FIG.30

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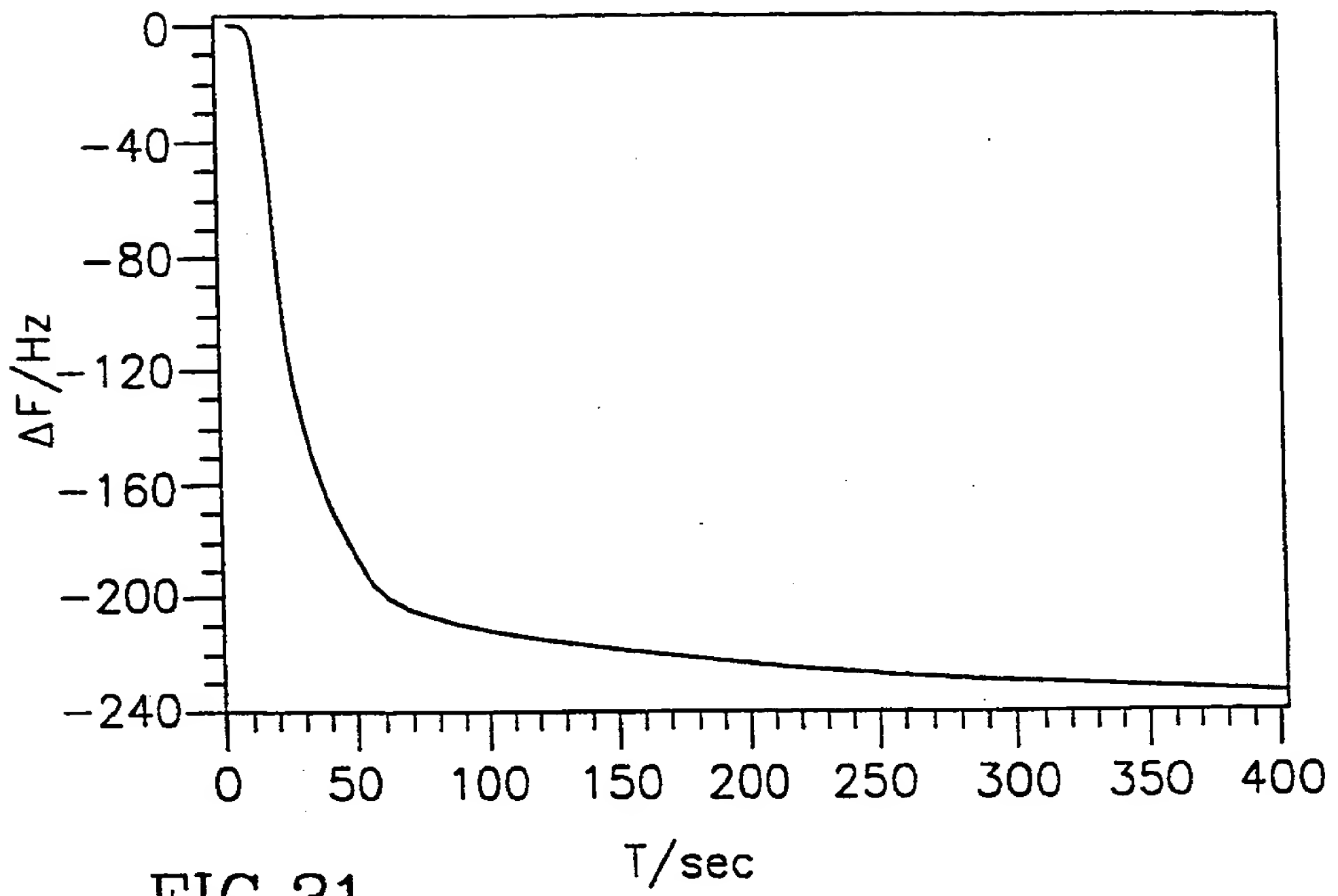


FIG.31

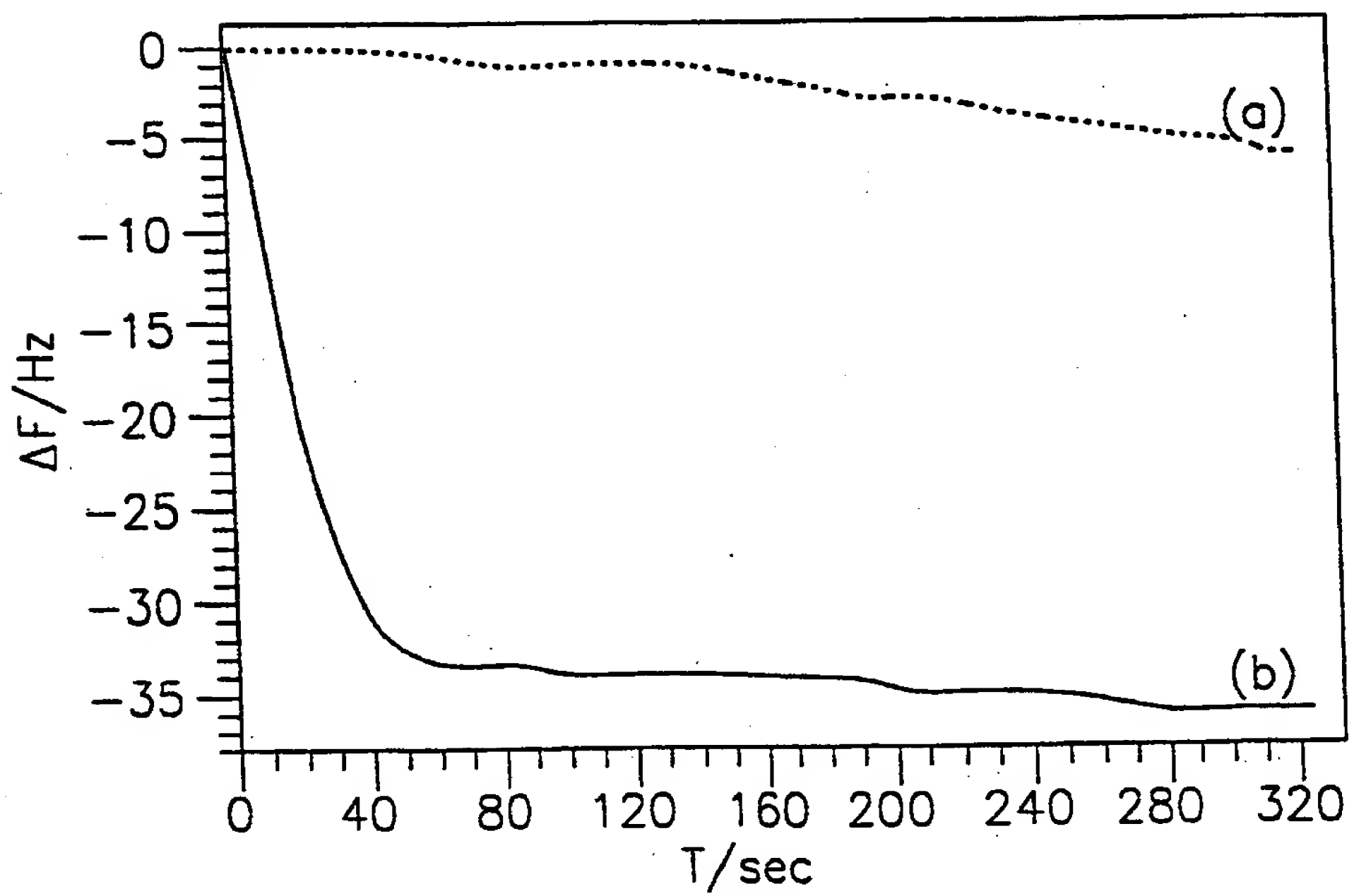


FIG.32

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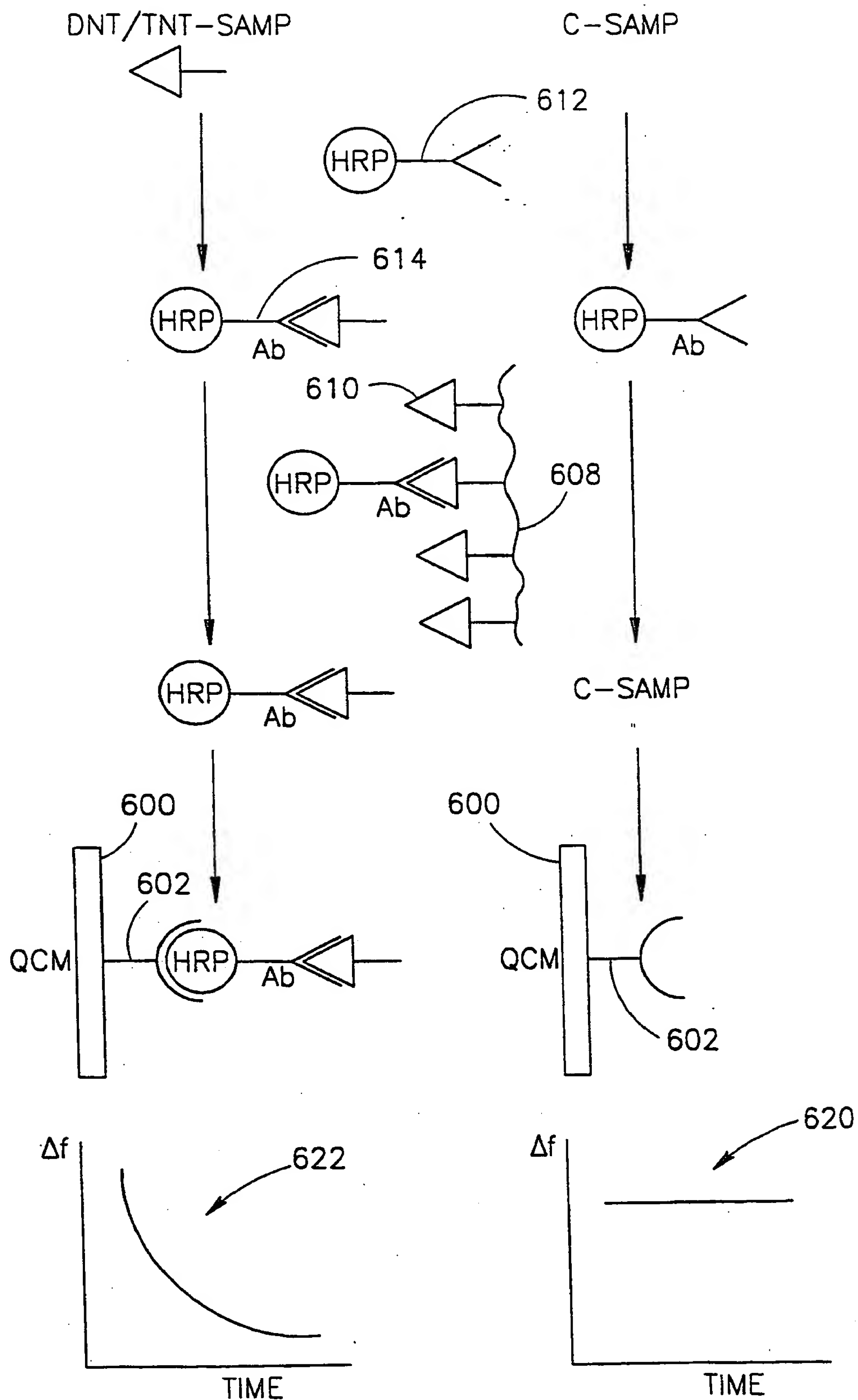


FIG.33

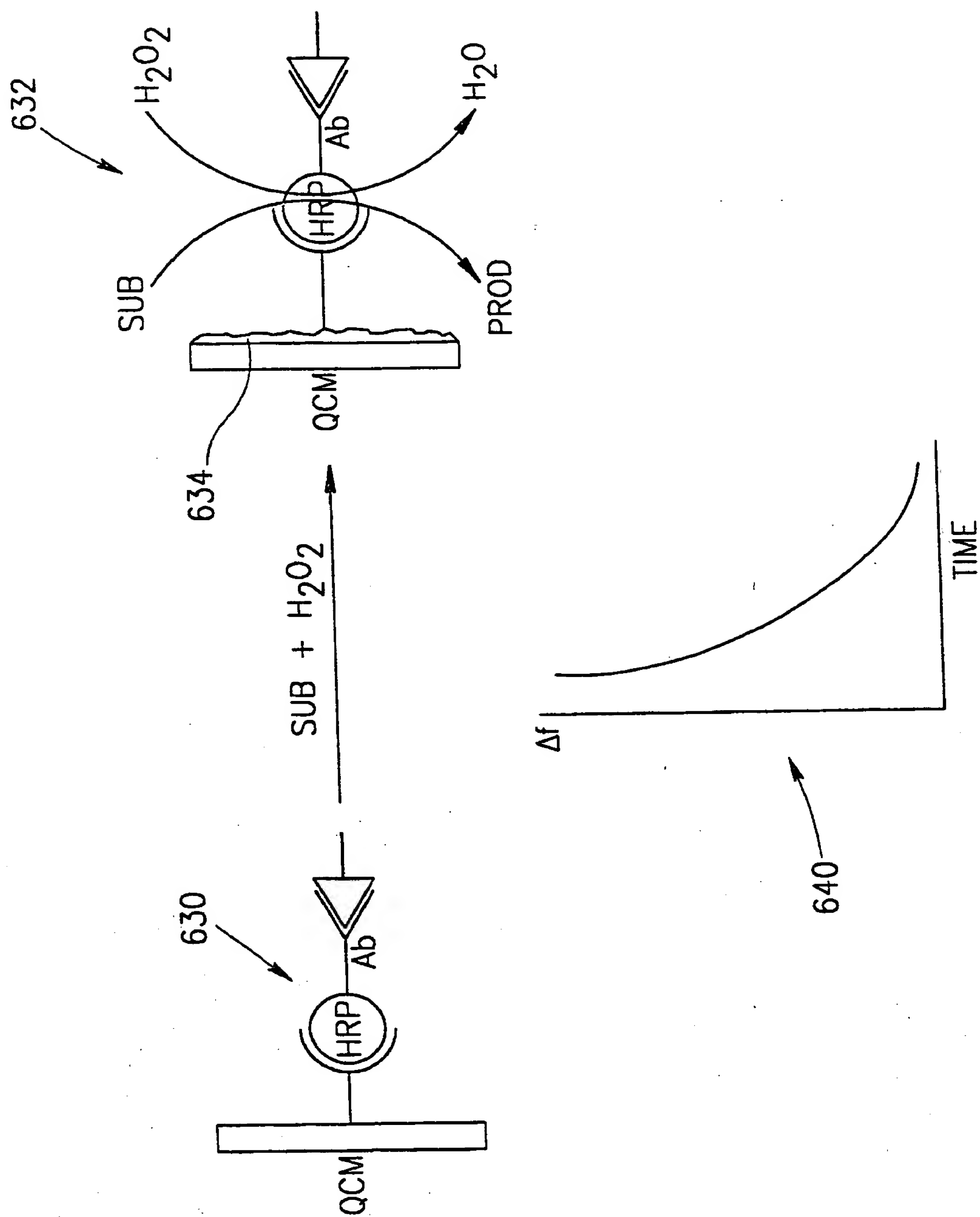


FIG. 34